Building Regulations Part M

Part M1 of the Building Regulations refers to the ‘Access and Use’ of a building and its facilities with Sections 4.25 to 4.30 then refining the use and design considerations of switches, outlets and controls.

Part of the requirements of Part M1 is to aid disabled people within their surroundings, being able to activate a light, socket or control within arms length, for the visually impaired being able to identify the units' position against its surrounding décor, and for the infirm a suitable pull-cord switch to raise the alarm in the event of an emergency.

The Part M™ Range brochure offers suitable solutions to the elements raised in Part M1 (4.25 to 4.30) with anthracite grey accessories contrasting against the high reflective décor used in the majority of today's buildings along with a range of pull-cord switches with alternative cords and bangles.

As well as the Mode® anthracite grey finish accessories, the wide range of Click® moulded, decorative and metal clad accessories offer alternatives to either suit or contrast against the surrounding décor.

Part M Range™
Visually Contrasting Wiring Accessories

Mode® wiring accessory range has been well received since its launch in 2006, with additional socket outlets, fused connection units and more recently 45A switches with white rockers being some of the latest additions to the range.

The Mode® range has recently been expanded to include a range of anthracite grey finished accessories to comply with current Building Regulations Part M.

The modular design is a standard feature of the Mode® range allowing designers and installers unprecedented flexibility in creating dedicated wiring solutions to deal specifically with virtually all wiring requirements.

All Mode® wiring accessories are tested and compliant with all UK and European standards.

All Mode® wiring accessories are covered by a comprehensive 'No Quibble' 20 year guarantee against any fault in materials or manufacture.

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Visually Contrasting Wiring Accessories

Building Regulations Part M

All white moulded and Mode® Part M™ wiring accessories are manufactured using Urea Formaldehyde, which has similar inherent properties to antimicrobial additives that inhibit the growth of infectious diseases. All products independently tested achieved a 99.99% kill off rate across all four types of the strains of bacteria - MRSA, E-Coli, Salmonella and Klebsiella Pneumoniae.

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Antimicrobial Certified Products

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Design Considerations

The key factors that affect the use of switches, outlets and controls are ease of operation, visibility, height and freedom from obstruction.

• A consistent relationship with doorways and corners will further reinforce the ease with which people manipulate switches and controls.

• All users should be able to locate a control, know which setting it is on and use it without setting it on and use it without inadvertently changing its setting.

• Controls that contrast visually with their surroundings are more convenient for visually impaired people, as are light switches that are activated by a large push pad.

• It is also an advantage if individual switches on panels and on multiple socket outlets are well separated, or in the form of large touch plates, to avoid the inadvertent selection of an adjacent control by visually impaired people and people with limited dexterity.

Pull Cord Provisions

• Where wall mounted switches cannot be provided, i.e. bathrooms and toilets, lighting pull cords are recommended. A 50mm bangle visually contrasting with its background needs to be fitted between 900mm and 1100mm above the floor.

• For emergency alarms systems the pull cord and bangle needs to be coloured red and located as close to a wall as possible. Two bangles are to be fitted, one set at 100mm and the other set between 800mm and 1000mm above the floor.
Switches

10AX Plate Switches (Modular)
All 10AX plate switches feature individual switch modules all fully interchangeable between plastic and metal ranges - thus providing optimum flexibility in wiring.

For comprehensive information on the full range of modules available please refer to our Minigrid™ product brochure.

For the complete range of Minigrid™ modules, see the dedicated Minigrid™ section, page j18.

**Standards:** BS EN 60669

**Back Box Depth:** 38mm Minimum

**Cable Size:** 4 x 1.5mm² / 2 x 2.5mm² / 1 x 6mm² Maximum

**Dimensions:** 1 Gang: (86mm x 86mm x 9.5mm)
Unfurnished Plates

MINIGRID® For the complete range of Minigrid™ modules, see the dedicated Minigrid™ section, page j18.

Unfurnished Plates - MiniGrid™

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMA401AG</td>
<td>1 Gang MiniGrid™ Unfurnished Plate - 1 Aperture</td>
</tr>
<tr>
<td>CMA402AG</td>
<td>1 Gang MiniGrid™ Unfurnished Plate - 2 Apertures</td>
</tr>
<tr>
<td>CMA403AG</td>
<td>1 Gang MiniGrid™ Unfurnished Plate - 3 Apertures</td>
</tr>
<tr>
<td>CMA404AG</td>
<td>2 Gang MiniGrid™ Unfurnished Plate - 2 x 2 Apertures</td>
</tr>
<tr>
<td>CMA426AG</td>
<td>2 Gang MiniGrid™ Unfurnished Plate - 6 In-Line Apertures</td>
</tr>
</tbody>
</table>

Switch modules interchangeable with Minigrid™ modules

Back Box Depth: Dependant on module used
Dimensions: 1 Gang: (86mm x 86mm x 9.5mm), 2 Gang: (146mm x 86mm x 9.5mm)

Unfurnished Plates c/w Gasket

MINIGRID® The 6 aperture yoke GR100PW utilises Polar™ white Minigrid™ modules. Switch modules are interchangeable with Minigrid™ modules, see page j18. For the complete range of Minigrid™ modules, see the dedicated Minigrid™ section.

2 Tier Unfurnished Plates - MiniGrid™

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>VPAG512</td>
<td>2 Tier MinGrid™ Unfurnished Plate c/w Gaskets - 12 Apertures - Part M™</td>
</tr>
<tr>
<td>VPAG518</td>
<td>3 Tier MinGrid™ Unfurnished Plate c/w Gaskets - 18 Apertures - Part M™</td>
</tr>
</tbody>
</table>

Back Box Depth: 47mm Minimum
Dimensions: 12 Module: (146mm x 146mm x 8mm) 18 Module: (146mm x 227mm x 8mm)
**Power Socket Outlets, Fused Connection Units & Control Switches**

All Part M™ 13A sockets and fused connection units are tested and approved to BS1363 offering assured quality and safety.

The provision of large twin earth terminals on our Two Gang sockets and fused connection units greatly facilitates wiring and installation.

The Part M™ range offers a solution for almost every possible design need and will enhance the décor of any area whether in a kitchen, bedroom, lounge or study etc...

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**Galvanised Steel Back Boxes**

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>WA512</td>
<td>2 Tier 47mm Deep K.O. Box</td>
</tr>
<tr>
<td>WA518</td>
<td>3 Tier 47mm Deep K.O. Box</td>
</tr>
</tbody>
</table>

**Yokes**

- **GR100BK** - MiniGrid™ Module Yoke - 6 Apertures - Black
- **GR100PW** - MiniGrid™ Module Yoke - 6 Apertures - White

Yokes & recommended ranges: Polar™ white - Part M Range™

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Dimensions: WA512: 137mm x 137mm, WA518: 137mm x 197mm
Switched Socket Outlets
CMA035AG  13A 1 Gang DP Switched Socket
CMA835AG  13A 1 Gang DP Switched Socket With Neon
CMA836AG  13A 2 Gang DP Switched Socket With Outboard Rockers (Twin Earth)
CMA840AG  13A 2 Gang DP Switched Socket With Neons & Outboard Rockers (Twin Earth)

Safety Shutter Socket Outlets
CMA1035AG  13A 1 Gang DP 3 Pin Safety Shutter Switched Socket
CMA1835AG  13A 1 Gang DP 3 Pin Safety Shutter Switched Socket & Neon
CMA1836AG  13A 2 Gang DP 3 Pin Safety Shutter Switched Socket With Outboard Rockers (Twin Earth)
CMA1840AG  13A 2 Gang DP 3 Pin Safety Shutter Switched Socket With Outboard Rockers & Neons (Twin Earth)

Locating Plug Sockets
CMA735AG  13A 1 Gang DP Switched Locating Plug Socket
CMA736AG  13A 2 Gang DP Switched Locating Plug Socket With Outboard Rockers (Twin Earth)

Standards: BS 1363
Back Box Depth: 25mm Minimum  Cable Size: 4 x 2.5mm² / 2 x 4mm²
Dimensions: 1 Gang: (86mm x 86mm x 9.5mm), 2 Gang: (146mm x 86mm x 9.5mm)
Power Socket Outlets

- **CMA771UAG**: 13A 1 Gang Switched Socket With 2.1A USB Outlet (Twin Earth)
- **CMA770AG**: 13A 2 Gang Switched Socket With 2.1A USB Outlet (Twin Earth)
- **CMA780AG**: 13A 2 Gang Switched Socket With Twin 2.1A USB Outlets (4.2A) (Twin Earth)

**Standards:** BS1363-2: 2016 + A1: 2018, BS EN 62368-1 and BS EN 62680-1-1

- **Back Box Depth:** 20mm
- **Cable Size:** 4 x 2.5mm² / 2 x 4mm²
- **Dimensions:** 1 Gang: (86mm x 86mm x 9.5mm), 2 Gang: (146mm x 86mm x 9.5mm)

Control Switches

- **CMA023AG**: 20A DP Switch With Neon
- **CMA052AG**: 13A Switched Fused Connection Unit With Neon
- **CMA771UAG**: 13A 1 Gang Switched Socket With 2.1A USB Outlet (Twin Earth)
- **CMA770AG**: 13A 2 Gang Switched Socket With 2.1A USB Outlet (Twin Earth)
- **CMA780AG**: 13A 2 Gang Switched Socket With Twin 2.1A USB Outlets (4.2A) (Twin Earth)

**Standards:** BS1363-2: 2016 + A1: 2018, BS EN 62368-1 and BS EN 62680-1-1

- **Back Box Depth:** 20mm
- **Cable Size:** 4 x 2.5mm² / 2 x 4mm²
- **Dimensions:** 1 Gang: (86mm x 86mm x 9.5mm), 2 Gang: (146mm x 86mm x 9.5mm)
Ceiling Accessories

Unfurnished Plates

Signal Screws
SP625 Standard M3.5 Security Screw 25mm Long (Bag 100)
Require 2mm security allen keydriver.

Pull Cord Switches
- PRC210AG 10AX 2 Way Pull Cord Switch With Grey Bangle
- PRC216AG 16A DP Pull Cord Switch With Grey Bangle
- PRW208AG 10A 3 Pole Fan Isolation Pull Cord Switch With Grey Bangle
- PRW210AG 45A DP Pull Cord Switch With Mechanical ‘On/Off’ & Neon - Grey Bangle
- PRW210RD 45A DP Pull Cord Switch With Mechanical ‘On/Off’ & Neon - Red Bangle
- PRW211AG 50A DP Pull Cord Switch With Mechanical ‘On/Off’ & Neon - Grey Bangle
- PRW211RD 50A DP Pull Cord Switch With Mechanical ‘On/Off’ & Neon - Red Bangle
- PRW213AG 50A DP Round Pull Cord Switch With Mechanical ‘On/Off’, Neon, Pattress & Grey Bangle
- PRW213RD 50A DP Round Pull Cord Switch With Mechanical ‘On/Off’, Neon, Pattress & Red Bangle

Standards: BS EN 60669
Cable Sizes: 208, 216, PRC210: 2 x 1.5mm² / 1 x 2.5mm²
PRC216: 1 x 16mm²
PRW210: 1 x 16mm² / 2 x 6mm² / 1 x 25mm²
PRW210/211: 86mm x 86mm x 43mm PRW213: 100mm Dia. x 77mm

Unfurnished Plates - New Media™
- CMA310AG 1 Gang New Media™ Unfurnished Plate - 1 Aperture
- CMA311AG 1 Gang New Media™ Unfurnished Plate - 2 Apertures
- CMA312AG 2 Gang New Media™ Unfurnished Plate - 4 Apertures

Selecting from a range of module inserts covering all manner of media transfer, the installer will now be able to configure their own arrangement of TV, radio or satellite reception, plus speaker, telephone and data outlets. All modules can be inserted into single or double wall plates, fitted onto standard switch and socket boxes. All New Media™ plates are suitable for use with standard euro module inserts.

Back Box Depth: Dependant on module used
Dimensions: 1 Gang: (86mm x 86mm x 9.5mm), 2 Gang: (146mm x 86mm x 9.5mm)
 Provision For Meeting
The Design Considerations

Section 4.30 of Part M™ lays out the provisions for satisfying the design considerations.

a. Socket outlets are located consistently to doorways and room corners, but in any case no nearer than 350mm from room corners.
b. Wall mounted sockets outlets, telephone, data and TV outlets are located between 400mm and 1000mm above the floor, with a preference for the lower end of the range.
c. Switches for permanently wired appliances are located between 400mm and 1200mm above the floor, unless needed at a higher level for particular appliances.
d. Controls that need close vision are located between 1200mm and 1400mm above the floor, so that readings may be taken by a person sitting or standing.
e. All switches that require precise hand movements are located between 750mm and 1200mm above the floor.
f. Light switches for use by the general public have large push pads and align with door handles within the range 900mm to 1100mm, for ease of location when entering a room.
g. Simple push button controls that require limited dexterity are not more than 1200mm above the floor.

<table>
<thead>
<tr>
<th>Finish</th>
<th>LRV</th>
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<tbody>
<tr>
<td>PW</td>
<td>74.3 Polar™ White</td>
</tr>
<tr>
<td>WH</td>
<td>83.6 Accessories White</td>
</tr>
<tr>
<td>BK</td>
<td>4.9 Black</td>
</tr>
<tr>
<td>RD</td>
<td>15.3 Red</td>
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<table>
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<tr>
<th>Decorative Finishes</th>
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<table>
<thead>
<tr>
<th>Finish</th>
<th>LRV</th>
</tr>
</thead>
<tbody>
<tr>
<td>AB*</td>
<td>34.1 Antique Brass</td>
</tr>
<tr>
<td>BN*</td>
<td>18.4 Black Nickel</td>
</tr>
<tr>
<td>PN*</td>
<td>43.3 Pearl Nickel</td>
</tr>
<tr>
<td>SB*</td>
<td>66.9 Satin Brass</td>
</tr>
<tr>
<td>SC*</td>
<td>38.3 Satin Chrome</td>
</tr>
<tr>
<td>SS*</td>
<td>49.8 Stainless Steel</td>
</tr>
</tbody>
</table>

The light reflectance values (LRV) are used to calculate the contrast between finishes and their backgrounds. For example, Anthracite Grey has an LRV of 8.9 and Practical White has an LRV of 100. The difference in LRV values is calculated in the following way:

- LRV values with * should be used with caution as the gloss level on these can give inaccurate results depending on lighting and or viewing conditions.
- Part M™ Section 4.26 indicates that the visual perception of one element of the building, or fitting within the building against another has a greater light reflectance value difference of 30 points, where black = 0 points and white = 100 points. Where illuminance on surfaces is greater than 200 LUX a difference in light reflectance value should be a minimum of 20 points.

Example: Anthracite grey (LRV 8.9) on a brilliant white background (LRV 100) gives a contrast of 91.1 points which complies with Part M™.
For the complete range of back boxes see Essentials™ page m4.
For the complete range of FlameGuard® back boxes see Essentials™ page m8.

**Galvanised Steel Back Boxes**
- WA092 1 Gang 16mm Deep Galvanised Steel K.O. Box
- WA093 1 Gang 25mm Deep Galvanised Steel K.O. Box
- WA094 2 Gang 25mm Deep Galvanised Steel K.O. Box
- WA095 1 Gang 35mm Deep Galvanised Steel K.O. Box
- WA096 2 Gang 35mm Deep Galvanised Steel K.O. Box
- WA097 1 Gang 47mm Deep Galvanised Steel K.O. Box
- WA098 2 Gang 47mm Deep Galvanised Steel K.O. Box
- WA099 1 + 1 35mm Deep Dual Accessory Box
- WA102 1 + 2 35mm Deep Dual Accessory Box

**Dry Lining Boxes**
- WA087P 1 Gang 35mm Deep Dry Lining Box
- WA088P 2 Gang 35mm Deep Dry Lining Box
- WA107P 2 Gang 47mm Deep Dry Lining Box
- WA108P Round Ceiling 34mm Deep Dry Lining Box

**FlameGuard® Dry Lining Boxes**
- WA4135 1 Gang 35mm Deep FlameGuard® Dry Lining Box
- WA4235 2 Gang 35mm Deep FlameGuard® Dry Lining Box
- WA4147 1 Gang 47mm Deep FlameGuard® Dry Lining Box
- WA4247 2 Gang 47mm Deep FlameGuard® Dry Lining Box

**‘Ezylink’ Dry Lining Box Connector**
- GA100  ‘Ezylink’ Dry Lining Box Connector