



# MRM

MABATI ROLLING MILLS

## MAINTENANCE AND CARE INSTRUCTIONS:

### FASTENERS & ACCESSORIES:

- Fasteners used alongside MRM louvres & other Roofing / Cladding systems should be as durable as the MRM-supplied component. MRM recommends the use of FIXTITE® fasteners or any other MRM-approved fasteners for use on ZINCAL® & COLORPLUS® products.
- Any applicable rubber seals/ washers on fasteners are recommended to be of EPDM material and to be free of Carbon compounds.

### GENERAL:

- It is always recommended to clean off swarf, Iron-filings and other debris that may be generated or encountered in the course of installing MRM products. This should be done at the end of each working day.
- By their design, Louvres can trap significant levels of dust & dirt. Regular cleaning is recommended.
- Touch-up paint is not recommended on COLORPLUS® surfaces.
- Avoid using solvent-type cleaning agents or abrasive material to clean off installed surfaces. Instead, soft brushes, water and soft cloths and mild detergents where needed are recommended.
- While ZINCAL & COLOURPLUS are compatible with other building materials based on Aluminium-Zinc coated steel or Aluminium, proximity to certain other different products (e.g. Copper) can result in premature failure of installed products. When uncertain, kindly cross-check with MRM.

## TECHNICAL SERVICES & SUPPORT

MRM offers full technical support and advice from the design up to the post-installation phases of the project for its supplied products. It is strongly recommended to appoint a recommended installer to install any roofing system or component thereof, including sheeting and louvres.

### ACCESSORIES:

Additional custom-made flashings, bird or vermin proofing can be incorporated in the design and manufacture of MRM fixed Louvres upon request and subject to applicable terms & conditions.

## Louvres

for Industrial & Architectural applications

- Natural air circulation.
- Internal temperature regulation.
- Light weight.
- No operating costs incurred.

Disclaimer: MRM ensures that the data provided is accurate at the time of going to print, however due to continuous product development. Please ensure that you have the most recent issue of information. Feb 2017.



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**NAIROBI**  
Old Mombasa Road  
Cell: 0788 202020 / 0735511180  
Email: marketing.mrmroofing@safalgroup.com

**NAKURU**  
Nairobi-Nakuru Highway,  
Cell: 0738865980  
Email: nakuru.mrmroofing@safalgroup.com

**NYERI**  
Nyeri-Nyahururu Road,  
Cell: 0733887790  
Email: nyeri.mrmroofing@safalgroup.com

**MOMBASA**  
Mombasa-Malindi Highway,  
Cell: +254 (0) 733 474 766  
Email: mombasa.mrmroofing@safalgroup.com

**KISUMU**  
Sabuni Road, Industrial Area  
Cell: 0733 600 150  
Email: kisumu.mrmroofing@safalgroup.com

**THIKA**  
Kiboko Road  
Cell: 0701 424 708  
Toll Free Number: 0800722711  
Email: thika.mrmroofing@safalgroup.com

**KISII**  
Industrial Area Road, Daraja Mbili,  
Cell: 0718215659  
Email: kisii.mrmroofing@safalgroup.com

**ELDORET**  
Kapsoya, Uganda Road  
Cell: 0780909040  
Email: eldoret.mrmroofing@safalgroup.com

**KITENGELA**  
Kitengela MRM Showroom  
Nairobi - Namanga Road  
Cell: 0708593691  
Email: mrmroofing.kitengela@safalgroup.com

**TOLL FREE: 0800 722 711**

Mabati Rolling Mills Ltd. P.O Box 271-00204 Athi River  
 0788 202 020 / 0733 360 548  
 sales.mrmroofing@safalgroup.com  
 Mabati Rolling Mills @ MRM\_Ltd

[www.mabati.com](http://www.mabati.com)



MABATI ROLLING MILLS supplies the building industry with a range of locally manufactured, architectural and industrial louvres for a variety of applications.

MRM offers fixed louvres, as distinguished from adjustable louvres, that are manufactured from pre-painted Aluminium-Zinc coated Steel or Aluminium to match the buildings roofing & cladding material, providing excellent performance, enhanced corrosion resistance and aesthetic appeal.

MRM supplies the fixed louvres in either standard sizes or as customized to a client's needs.

### THE IMPORTANCE OF VENTILATION

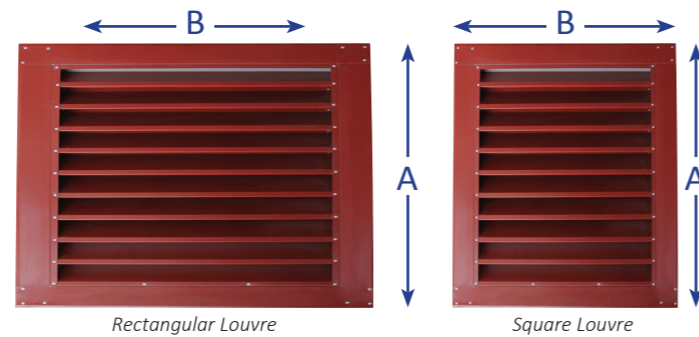
One of the main application of louvres in buildings is as natural ventilation mechanisms, though they are also usually adapted as visual screens, barriers and sun-shading. Natural ventilation is critical to the exchange of air from a building to the exterior & air circulation within the building, supplying fresh air to limit the concentration of carbon dioxide & other air-borne pollutants such as dust, smoke & volatile organic compounds (VOCs). Ventilation also positively impacts internal temperature regulation while keeping away unwanted elements like rain, wind and vermin. Louvres are an important component in today's green architecture by reducing mechanical ventilation processes that consume power and give off emissions.

### FEATURES & BENEFITS OF MRM LOUVRES

- They are available in a variety of colour finishes to complement the project's architecture.
- Besides the standard offering, a wide range of convenient customizable louvres can be supplied.
- They are made from Aluminium-Zinc coated Steel or Aluminium base – matching the building's roofing or cladding material both in long-term performance & visual appeal.
- They attract no operating costs.
- They are lightweight yet strong and do not require specialized tooling or skills to install.

### MRM FIXED LOUVRES

As complementary components to metal or other cladding material used on a building's surface, MRM fixed Louvres bring a touch of class to any project. MRM supplies 3 standard options; two square and one rectangular fixed louvres. Customizable sizes and shapes based on the either orthogonal or triangular shapes can be supplied, subject to applicable terms & conditions.



Standard MRM Fixed Louvre Dimensions:

Parameter	MRM1 (Small Square)	MRM2 (Rectangular)	MRM3 (Large Square)
Overall Height A (mm)	525	525	1,025
Overall Height B (mm)	500	1,000	1,000
Louvre Frame Thickness (mm)	100	100	100
Aggregate Throat Area (M <sup>2</sup> )	0.09	0.18	0.41
Approx. Steel Louvre Mass - 0.4mm thick (kg)	2.28	4.55	8.29
No. of Blades	5	5	10
Louvre Free Area (LFA)	32.9%	34.7%	40%



### SAMPLE SPECIFICATIONS

Louvres shall be square/ rectangular / Triangular shaped xxx size (specify as MRM1, MRM2, MRM3 or custom-sized), fixed type made from Colorplus® AZ100 material and of xxx colour (specify). They shall be mounted on a metal-surround frame fixed on the cladding frame/ grouted into masonry and flashed according to the manufacturer's specifications.



Legend:  
 1. MRM depicts MRM's fixed Louvres  
 2. Number of Louvres required =  $\frac{\text{Amount of Ventilation needed (as per relevant specialist)}}{\text{Aggregated Throat Area of applicable louvre}}$

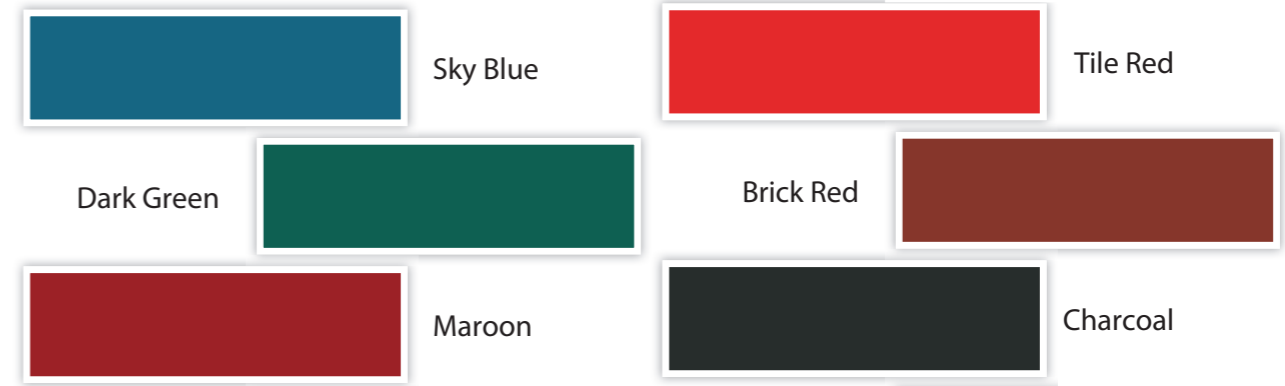


\*Note: Louvres can be made in customised sizes as required. Please enquire with sales division.

### COLOUR AVAILABILITY

Colours available as per the standard colour options provided by MRM. Bespoke colours available on request.

*\* Images & colours represented may vary from actual product*



## LOUVRES: Common Applications



In plane infill at plants & industries/ installations.



Screens, housing & barriers.



Roof/Ceiling-Space Vents.



Sun shading devices including full-façade shading.