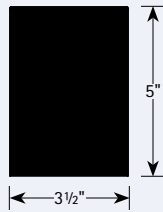


### FEATURES

- 3 1/2" x 5" elegant geometric beam
- Uplight and Asymmetric Downlight
- Asymmetric downlight louver does not intrude below fixture housing
- Symmetric downlight available; see MDI CM specification sheet
- Up/Down switching available
- T5, T5HO or T8
- Extensive aesthetic and shielding options
- Full family including cable mount, wall mount, surface mount and recessed
- Companion fixtures include the 2 1/2" x 3 1/2" Microlyne® Mini and 3 1/2" x 3 1/2" Microlyne
- Aesthetic continuity across family, shielding and options

### SHAPE AND DIMENSIONS



### PROJECT INFORMATION

|              |      |
|--------------|------|
| Project Name | Type |
| Catalog No.  | Date |

### CONSTRUCTION

Extruded aluminum direct-indirect housing includes typical recycled content of 25-30%.

### END CAPS

Die cast flat end caps for standard lamp configuration. Staggered lamps feature extended end-of-row end caps to ensure continuous light with out obtrusively dark row ends. Both end caps feature silicone gasket to eliminate light leak, see Light Seal. Ships installed on fixture.

### LIGHT SEAL

Housing unions between all joints include upper formed light seal and aligner connectors to block light. End of row and single units feature unique optimized V-0 closed cell silicone gasket light seal at joints between extruded housing and die cast end cap.

### CONNECTIONS

Secure, simple housing connections ensure row continuity. Standard lamp configuration features patent pending Ready Connect system for end cap connections.

### MOUNTING

Microlyne® Cable Mount uses adjustable aircraft cable. Does not require disassembly of unit for installation of cable hanger. 5" steel canopy covers are provided standard for feed and non-feed locations. 2" canopies optional.

### REFLECTOR

High reflectance formed white reflector.

### DOWNLIGHT SHIELDING

Shielding is provided for single or continuous row. Asymmetric louvers appear identical to standard louvers from below the fixture. The asymmetric louver lights vertical surfaces by providing light to areas above typical cut-off.

**M4R** - Asymmetric 95% Reflective Specular Aluminum louver combines glare control and performance with a high tech aesthetic.

**HEP** - High efficiency specular parabolic louvers maximize downlight for enhanced efficiency where maximum light output is the primary concern.

**MA** - Matte anodized louvers incorporate an attractive but subtle grain pattern which minimizes the visibility of fingerprints and construction dust without sacrifice to aesthetic qualities.

### UPLIGHT SHIELDING

Uplight is open and free of shielding to allow maximum efficiency.

### DISTRIBUTION

A wide range of symmetric up/asymmetric downlight distributions include combinations of uplight and downlight using one or more lamps in either the indirect or direct portion and combined with many types of downlight shielding. See ordering guide for additional options. Number of lamps in cross section will determine which options are available. Note that a wide range of symmetric downlight options can be found on MDI CM specification sheet.

### ELECTRICAL

Fixtures are pre-wired with electronic ballasts in 120V, 277V or 120V-277V (U). 347V available on some models; contact factory. Tandem and row configurations use quick-connect single or multi-circuit wiring between luminaires. Power feed locations as indicated on Technical Installation Data pages or project specific layouts. Night light, emergency circuits or factory installed battery packs must be specified as option.

### FINISH

Matte White powder coat standard for end caps and housing. Zet Silver and additional colors and finishes optional.

### CERTIFICATION

All fixtures bear appropriate UL or C UL US labels.

### ORDERING INFORMATION

### EXAMPLE: MDIA-20-1U1DT5-CM48-HEP-EPU-MW

| MDI A - - - CM - - - - -   |  |  |  |                                |                     |   |   |  |  |  |   |  |  |   |                               |                                       |                          |  |  |   |                    |                    |                     |   |  |
|--|--|--|--|--------------------------------|---------------------|---|---|--|--|--|---|--|--|---|-------------------------------|---------------------------------------|--------------------------|--|--|---|--------------------|--------------------|---------------------|---|--|
| <table border="1"> <tr> <th>ROW LENGTH</th> <th>ROW PATTERN</th> </tr> <tr> <td>4 4' Single</td> <td>Blank Straight</td> </tr> <tr> <td>8 8' Single</td> <td>P Pattern (specify)</td> </tr> <tr> <td>12 12' Single</td> <td></td> </tr> <tr> <td>— Indicate row length in 4' increments.<sup>1,2</sup></td> <td>Pattern layouts require factory approval drawings.</td> </tr> </table>   | ROW LENGTH   | ROW PATTERN  | 4 4' Single  | Blank Straight                 | 8 8' Single         | P Pattern (specify)   | 12 12' Single   |  | — Indicate row length in 4' increments. <sup>1,2</sup> | Pattern layouts require factory approval drawings.   | <table border="1"> <tr> <th>MOUNTING</th> <th>SUSPENSION LENGTH (CM)</th> </tr> <tr> <td>CM Adj. Aircraft Cable Mount</td> <td>18 18"</td> </tr> <tr> <td></td> <td>48 48"</td> </tr> <tr> <td></td> <td>96 96"</td> </tr> <tr> <td></td> <td>Other Specify</td> </tr> </table> | MOUNTING   | SUSPENSION LENGTH (CM)   | CM Adj. Aircraft Cable Mount                | 18 18"                        |                                       | 48 48"                   |  | 96 96"                                       |   | Other Specify      |                    |                     |   |  |
| ROW LENGTH   | ROW PATTERN  |  |  |                                |                     |   |   |  |  |  |   |  |  |   |                               |                                       |                          |  |  |   |                    |                    |                     |   |  |
| 4 4' Single  | Blank Straight   |  |  |                                |                     |   |   |  |  |  |   |  |  |   |                               |                                       |                          |  |  |   |                    |                    |                     |   |  |
| 8 8' Single  | P Pattern (specify)  |  |  |                                |                     |   |   |  |  |  |   |  |  |   |                               |                                       |                          |  |  |   |                    |                    |                     |   |  |
| 12 12' Single  |  |  |  |                                |                     |   |   |  |  |  |   |  |  |   |                               |                                       |                          |  |  |   |                    |                    |                     |   |  |
| — Indicate row length in 4' increments. <sup>1,2</sup>   | Pattern layouts require factory approval drawings.   |  |  |                                |                     |   |   |  |  |  |   |  |  |   |                               |                                       |                          |  |  |   |                    |                    |                     |   |  |
| MOUNTING   | SUSPENSION LENGTH (CM)   |  |  |                                |                     |   |   |  |  |  |   |  |  |   |                               |                                       |                          |  |  |   |                    |                    |                     |   |  |
| CM Adj. Aircraft Cable Mount   | 18 18"   |  |  |                                |                     |   |   |  |  |  |   |  |  |   |                               |                                       |                          |  |  |   |                    |                    |                     |   |  |
|  | 48 48"   |  |  |                                |                     |   |   |  |  |  |   |  |  |   |                               |                                       |                          |  |  |   |                    |                    |                     |   |  |
|  | 96 96"   |  |  |                                |                     |   |   |  |  |  |   |  |  |   |                               |                                       |                          |  |  |   |                    |                    |                     |   |  |
|  | Other Specify  |  |  |                                |                     |   |   |  |  |  |   |  |  |   |                               |                                       |                          |  |  |   |                    |                    |                     |   |  |
| <table border="1"> <tr> <th>VOLTAGE</th> <th>COLOR</th> </tr> <tr> <td>U 120V-277V</td> <td>MW Matte White (Std.)</td> </tr> <tr> <td>120 120V</td> <td>ZT ZET Metallic Silver</td> </tr> <tr> <td>277 277V</td> <td></td> </tr> <tr> <td>347 347V</td> <td>See MTX-1 for other color selections.</td> </tr> </table>  | VOLTAGE  | COLOR  | U 120V-277V  | MW Matte White (Std.)          | 120 120V            | ZT ZET Metallic Silver  | 277 277V  |  | 347 347V   | See MTX-1 for other color selections.  | <table border="1"> <tr> <th>CORNER<sup>5</sup></th> </tr> <tr> <td>90 90° Unlit 6"x6"</td> </tr> <tr> <td>For lit or alternate sizes, contact factory</td> </tr> </table>   | CORNER <sup>5</sup>  | 90 90° Unlit 6"x6"   | For lit or alternate sizes, contact factory |                               |                                       |                          |  |  |   |                    |                    |                     |   |  |
| VOLTAGE  | COLOR  |  |  |                                |                     |   |   |  |  |  |   |  |  |   |                               |                                       |                          |  |  |   |                    |                    |                     |   |  |
| U 120V-277V  | MW Matte White (Std.)  |  |  |                                |                     |   |   |  |  |  |   |  |  |   |                               |                                       |                          |  |  |   |                    |                    |                     |   |  |
| 120 120V   | ZT ZET Metallic Silver   |  |  |                                |                     |   |   |  |  |  |   |  |  |   |                               |                                       |                          |  |  |   |                    |                    |                     |   |  |
| 277 277V   |  |  |  |                                |                     |   |   |  |  |  |   |  |  |   |                               |                                       |                          |  |  |   |                    |                    |                     |   |  |
| 347 347V   | See MTX-1 for other color selections.  |  |  |                                |                     |   |   |  |  |  |   |  |  |   |                               |                                       |                          |  |  |   |                    |                    |                     |   |  |
| CORNER <sup>5</sup>  |  |  |  |                                |                     |   |   |  |  |  |   |  |  |   |                               |                                       |                          |  |  |   |                    |                    |                     |   |  |
| 90 90° Unlit 6"x6"   |  |  |  |                                |                     |   |   |  |  |  |   |  |  |   |                               |                                       |                          |  |  |   |                    |                    |                     |   |  |
| For lit or alternate sizes, contact factory  |  |  |  |                                |                     |   |   |  |  |  |   |  |  |   |                               |                                       |                          |  |  |   |                    |                    |                     |   |  |
| <table border="1"> <tr> <th>SYM / ASYM</th> <th>LAMP TYPE AND PROFILE</th> <th>DOWNLIGHT SHIELDING</th> <th>BALLAST</th> </tr> <tr> <td>A Asymmetric Louver</td> <td>1U1DT5 1 Lamp Up, 1 Lamp Down, T5<sup>3</sup><br/>1U1DT5HO 1 Lamp Up, 1 Lamp Down, T5HO<sup>3</sup><br/>1U2DT5 1 Lamp Up, 2 Lamps Down, T5<sup>3</sup></td> <td>M4R 95% Reflective Specular Aluminum Louver (24 Cell)</td> <td>E Electronic, Instant Start, (Std. for T8)</td> </tr> <tr> <td>MDI Microlyne® Direct-Indirect</td> <td>1U2DT5HO 1 Lamp Up, 2 Lamps Down, T5HO<sup>3</sup><br/>2U1DT5 2 Lamps Up, 1 Lamp Down, T5<sup>3</sup><br/>2U1DT5HO 2 Lamps Up, 1 Lamp Down, T5HO<sup>3</sup><br/>2U2DT5 2 Lamps Up, 2 Lamps Down, T5<sup>3</sup><br/>2U2DT5HO 2 Lamps Up, 2 Lamps Down, T5HO<sup>3</sup><br/>1U1DT8 1 Lamp Up, 1 Lamp Down, T8</td> <td>HEP High Efficiency Parabolic Specular Louver (15 Cell)<br/>MA Matte Anodized Low Iridescent Semi-Specular Aluminum (24 Cell)</td> <td>EP Electronic, Programmed Start (Std. for T5 &amp; T5HO, optional for T8)<br/>ED Electronic, Dimming (Must Specify)<sup>4</sup><br/>ESD Electronic, Step Dimming<sup>4</sup></td> </tr> </table> | SYM / ASYM   | LAMP TYPE AND PROFILE  | DOWNLIGHT SHIELDING  | BALLAST                        | A Asymmetric Louver | 1U1DT5 1 Lamp Up, 1 Lamp Down, T5 <sup>3</sup><br>1U1DT5HO 1 Lamp Up, 1 Lamp Down, T5HO <sup>3</sup><br>1U2DT5 1 Lamp Up, 2 Lamps Down, T5 <sup>3</sup> | M4R 95% Reflective Specular Aluminum Louver (24 Cell) | E Electronic, Instant Start, (Std. for T8) | MDI Microlyne® Direct-Indirect                         | 1U2DT5HO 1 Lamp Up, 2 Lamps Down, T5HO <sup>3</sup><br>2U1DT5 2 Lamps Up, 1 Lamp Down, T5 <sup>3</sup><br>2U1DT5HO 2 Lamps Up, 1 Lamp Down, T5HO <sup>3</sup><br>2U2DT5 2 Lamps Up, 2 Lamps Down, T5 <sup>3</sup><br>2U2DT5HO 2 Lamps Up, 2 Lamps Down, T5HO <sup>3</sup><br>1U1DT8 1 Lamp Up, 1 Lamp Down, T8 | HEP High Efficiency Parabolic Specular Louver (15 Cell)<br>MA Matte Anodized Low Iridescent Semi-Specular Aluminum (24 Cell)  | EP Electronic, Programmed Start (Std. for T5 & T5HO, optional for T8)<br>ED Electronic, Dimming (Must Specify) <sup>4</sup><br>ESD Electronic, Step Dimming <sup>4</sup> | <table border="1"> <tr> <th>OPTIONS</th> </tr> <tr> <td>DC Dust Cover (N/A with T5HO)</td> </tr> <tr> <td>LR Left/Right Switching (2-Lamp only)</td> </tr> <tr> <td>UB Upper/Lower Switching</td> </tr> <tr> <td>EL 1 Emergency Battery Pack Per Row<sup>4,5,7</sup></td> </tr> <tr> <td>EMC One Emergency Circuit<sup>4,5,6,7</sup></td> </tr> <tr> <td>NL Night Light Circuit<sup>4,5,6,7</sup></td> </tr> <tr> <td>GLR Fast Blow Fuse</td> </tr> <tr> <td>GMF Slow Blow Fuse</td> </tr> <tr> <td>TBAR T-Bar Mounting</td> </tr> <tr> <td>CSA UL listed or CSA certified for Canada</td> </tr> <tr> <td>DL Damp Label (Available on most models)</td> </tr> </table> | OPTIONS                                     | DC Dust Cover (N/A with T5HO) | LR Left/Right Switching (2-Lamp only) | UB Upper/Lower Switching | EL 1 Emergency Battery Pack Per Row <sup>4,5,7</sup> | EMC One Emergency Circuit <sup>4,5,6,7</sup> | NL Night Light Circuit <sup>4,5,6,7</sup> | GLR Fast Blow Fuse | GMF Slow Blow Fuse | TBAR T-Bar Mounting | CSA UL listed or CSA certified for Canada | DL Damp Label (Available on most models) |
| SYM / ASYM   | LAMP TYPE AND PROFILE  | DOWNLIGHT SHIELDING  | BALLAST  |                                |                     |   |   |  |  |  |   |  |  |   |                               |                                       |                          |  |  |   |                    |                    |                     |   |  |
| A Asymmetric Louver  | 1U1DT5 1 Lamp Up, 1 Lamp Down, T5 <sup>3</sup><br>1U1DT5HO 1 Lamp Up, 1 Lamp Down, T5HO <sup>3</sup><br>1U2DT5 1 Lamp Up, 2 Lamps Down, T5 <sup>3</sup>  | M4R 95% Reflective Specular Aluminum Louver (24 Cell)  | E Electronic, Instant Start, (Std. for T8)   |                                |                     |   |   |  |  |  |   |  |  |   |                               |                                       |                          |  |  |   |                    |                    |                     |   |  |
| MDI Microlyne® Direct-Indirect   | 1U2DT5HO 1 Lamp Up, 2 Lamps Down, T5HO <sup>3</sup><br>2U1DT5 2 Lamps Up, 1 Lamp Down, T5 <sup>3</sup><br>2U1DT5HO 2 Lamps Up, 1 Lamp Down, T5HO <sup>3</sup><br>2U2DT5 2 Lamps Up, 2 Lamps Down, T5 <sup>3</sup><br>2U2DT5HO 2 Lamps Up, 2 Lamps Down, T5HO <sup>3</sup><br>1U1DT8 1 Lamp Up, 1 Lamp Down, T8 | HEP High Efficiency Parabolic Specular Louver (15 Cell)<br>MA Matte Anodized Low Iridescent Semi-Specular Aluminum (24 Cell) | EP Electronic, Programmed Start (Std. for T5 & T5HO, optional for T8)<br>ED Electronic, Dimming (Must Specify) <sup>4</sup><br>ESD Electronic, Step Dimming <sup>4</sup> |                                |                     |   |   |  |  |  |   |  |  |   |                               |                                       |                          |  |  |   |                    |                    |                     |   |  |
| OPTIONS  |  |  |  |                                |                     |   |   |  |  |  |   |  |  |   |                               |                                       |                          |  |  |   |                    |                    |                     |   |  |
| DC Dust Cover (N/A with T5HO)  |  |  |  |                                |                     |   |   |  |  |  |   |  |  |   |                               |                                       |                          |  |  |   |                    |                    |                     |   |  |
| LR Left/Right Switching (2-Lamp only)  |  |  |  |                                |                     |   |   |  |  |  |   |  |  |   |                               |                                       |                          |  |  |   |                    |                    |                     |   |  |
| UB Upper/Lower Switching   |  |  |  |                                |                     |   |   |  |  |  |   |  |  |   |                               |                                       |                          |  |  |   |                    |                    |                     |   |  |
| EL 1 Emergency Battery Pack Per Row <sup>4,5,7</sup>   |  |  |  |                                |                     |   |   |  |  |  |   |  |  |   |                               |                                       |                          |  |  |   |                    |                    |                     |   |  |
| EMC One Emergency Circuit <sup>4,5,6,7</sup>   |  |  |  |                                |                     |   |   |  |  |  |   |  |  |   |                               |                                       |                          |  |  |   |                    |                    |                     |   |  |
| NL Night Light Circuit <sup>4,5,6,7</sup>  |  |  |  |                                |                     |   |   |  |  |  |   |  |  |   |                               |                                       |                          |  |  |   |                    |                    |                     |   |  |
| GLR Fast Blow Fuse   |  |  |  |                                |                     |   |   |  |  |  |   |  |  |   |                               |                                       |                          |  |  |   |                    |                    |                     |   |  |
| GMF Slow Blow Fuse   |  |  |  |                                |                     |   |   |  |  |  |   |  |  |   |                               |                                       |                          |  |  |   |                    |                    |                     |   |  |
| TBAR T-Bar Mounting  |  |  |  |                                |                     |   |   |  |  |  |   |  |  |   |                               |                                       |                          |  |  |   |                    |                    |                     |   |  |
| CSA UL listed or CSA certified for Canada  |  |  |  |                                |                     |   |   |  |  |  |   |  |  |   |                               |                                       |                          |  |  |   |                    |                    |                     |   |  |
| DL Damp Label (Available on most models)   |  |  |  |                                |                     |   |   |  |  |  |   |  |  |   |                               |                                       |                          |  |  |   |                    |                    |                     |   |  |
| <table border="1"> <tr> <th>MODEL</th> <th>LIGHT MODULES<sup>5</sup></th> </tr> <tr> <td>MDI Microlyne® Direct-Indirect</td> <td>Contact Factory</td> </tr> </table>   |  | MODEL  | LIGHT MODULES <sup>5</sup>   | MDI Microlyne® Direct-Indirect | Contact Factory     |   |   |  |  |  |   |  |  |   |                               |                                       |                          |  |  |   |                    |                    |                     |   |  |
| MODEL  | LIGHT MODULES <sup>5</sup>   |  |  |                                |                     |   |   |  |  |  |   |  |  |   |                               |                                       |                          |  |  |   |                    |                    |                     |   |  |
| MDI Microlyne® Direct-Indirect   | Contact Factory  |  |  |                                |                     |   |   |  |  |  |   |  |  |   |                               |                                       |                          |  |  |   |                    |                    |                     |   |  |

<sup>1</sup> Rows over 12' will be configured by Alera. Example: 16' will be (2) 8'. For alternate configurations, contact factory.

<sup>2</sup> Shorter increments are available—contact factory.

<sup>3</sup> T5/T5HO lamps may cause visible socket shadow in downlight component.

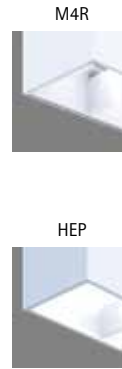
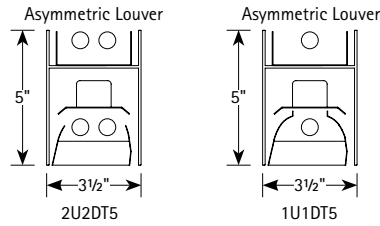
<sup>4</sup> Specify dedicated voltage.

<sup>5</sup> Not available with all configurations; some limitations apply. Contact factory for details.

<sup>6</sup> One extra feed drop per row with through wiring. (Standard is one 4ft lamp per circuit.)

<sup>7</sup> For additional, specify quantity before nomenclature (Example: 2EL120, EMC277).

## CROSS SECTION



## PHOTOMETRIC DATA

### LUMINAIRE DATA Test 14954

|                 |  |
|-----------------|--|
| Luminaire       | MDI-A-1T5-HEP-EP<br>Microlyne® Beams<br>3.5" x 48" 2-Lamp with 1 x 15 Cell<br>HEP Wall Wash Louver |
| Ballast         | ICN-2S28   |
| Ballast Factor  | 1.03   |
| Lamp            | F28T5  |
| Lumens per Lamp | 2600   |
| Watts           | 64   |
| Shielding Angle | 0° = 19 90° = 33   |

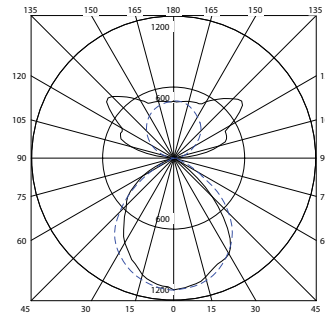
### ZONAL LUMEN SUMMARY

| Zone   | Lumens | % Lamp | % Fixt. |
|--------|--------|--------|---------|
| 0-30   | 843    | 16.2   | 18.4    |
| 0-40   | 1354   | 26.0   | 29.6    |
| 0-60   | 2096   | 40.3   | 45.8    |
| 0-90   | 2216   | 42.6   | 48.4    |
| 90-120 | 790    | 15.2   | 17.3    |
| 90-130 | 1238   | 23.8   | 27.1    |
| 90-150 | 1954   | 37.6   | 42.7    |
| 90-180 | 2358   | 45.4   | 51.6    |
| 0-180  | 4575   | 88.0   | 100.0   |

### ENERGY DATA

|   |  |
|---|--|
| Total Luminaire Efficiency                              | 88.0%  |
| Luminaire Efficacy Rating (LER)                         | 74   |
| Comparative Yearly Lighting Energy Cost per 1000 Lumens | \$3.24 based on 3000 hrs. and \$0.08 per KWH |

### INDOOR CANDELA PLOT



### CANDELA SUMMARY

| Angle | 90.0 | 135.0 | 180.0 | 225.0 | 270.0 |
|-------|------|-------|-------|-------|-------|
| 0.0   | 1113 | 1113  | 1113  | 1113  | 1113  |
| 15.0  | 1040 | 1075  | 1067  | 1056  | 1021  |
| 30.0  | 934  | 908   | 923   | 863   | 826   |
| 45.0  | 461  | 622   | 657   | 604   | 565   |
| 60.0  | 20   | 148   | 207   | 265   | 302   |
| 75.0  | 3    | 6     | 0     | 16    | 12    |
| 90.0  | 0    | 0     | 0     | 0     | 0     |
| 105.0 | 396  | 333   | 85    | 322   | 371   |
| 120.0 | 551  | 574   | 209   | 550   | 503   |
| 135.0 | 709  | 529   | 320   | 534   | 736   |
| 150.0 | 551  | 481   | 408   | 476   | 564   |
| 165.0 | 496  | 488   | 463   | 487   | 496   |
| 180.0 | 482  | 482   | 482   | 482   | 482   |

270.0-90.0 ——— 180.0-0.0 - - - -

Test Date 4/4/08

| MICROLYNE® FAMILY QUICK REFERENCE PAGE FINDER  |                |                  |             |      |               |                 |            |     |                   |                      |
|--|----------------|------------------|-------------|------|---------------|-----------------|------------|-----|-------------------|----------------------|
|  | MR             | MRA              | MMR         | MMRA | M             | MA              | MM         | MMA | MDI               | MDIA                 |
| SYMMETRIC                                      | X              |                  | X           |      | X             |                 | X          |     | X                 |                      |
| ASYMMETRIC                                     |                | X                |             | X    |               | X               |            | X   |                   | X                    |
| GRID/SLOT GRID<br>GRID FLANGE/SLOT GRID FLANGE | MRG<br>MRSTGG  | MRA G<br>MRASTGG | MMR, MMRA G |      |               |                 |            |     |                   |                      |
| FLANGE   | MR F<br>MRSTGF | MRA F<br>MRASTGF | MMR, MMRA F |      |               |                 |            |     |                   |                      |
| PLASTER  | MR P<br>MRSTGP | MRA P<br>MRASTGP | MMR, MMRA P |      |               |                 |            |     |                   |                      |
| CABLE  |                |                  |             |      | MCM<br>MSTGCM | MACM<br>MASTGCM | MM, MMA CM |     | MDICM<br>MDISTGCM | MDIA CM<br>MDIASTGCM |
| SURFACE  |                |                  |             |      | MSM<br>MSTGSM | MASM<br>MASTGSM | MM, MMA SM |     |                   |                      |
| WALL   |                |                  |             |      | MWM<br>MSTGWM | MAWM<br>MASTGWM | MM, MMA WM |     | MDIWM<br>MDISTGWM | MDIA WM<br>MDIASTGWM |