

### INFORMATION

The Metalfix self-drilling screws are externally threaded fasteners with the ability to drill their own hole and form or cut their own internal mating threads suitable for fixing steel to steel. They come with EPDM washers to prevent water ingress.

The light and heavy sections are designed for thin and thick metal sections respectively.

### BASE MATERIAL

- 1.2-3.0mm steel (light section)
- 3.0-12.5mm steel (heavy section)

### FEATURES

- For Fixing Steel To Steel
- Hexagon Head
- DIN 7504K
- C1022 Steel Case Hardened
- Reaction To Fire Class A1
- Zinc Plated Minimum 8µm

### RELATED PRODUCTS



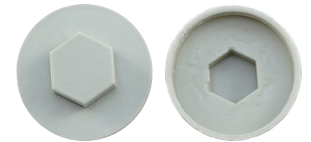
MF516

Magnetic Socket



MFW16 MFW19

Loose EPDM Washers (16 or 19mm)



Coloured Cover Caps

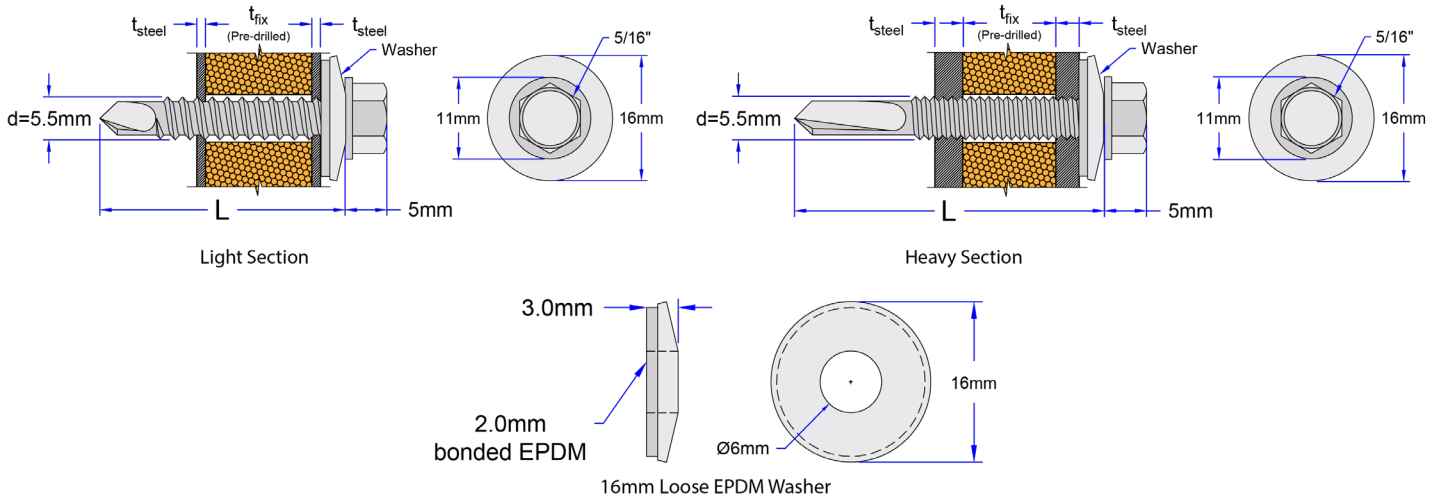
### RANGE AND LOAD DATA

| RANGE DATA    |             |        |                    |                        |            |                       |                       |                    |                         |                      |                       |
|---------------|-------------|--------|--------------------|------------------------|------------|-----------------------|-----------------------|--------------------|-------------------------|----------------------|-----------------------|
| Part Number   | Thread Diam | Length | Thread Length      | Fixture Clearance Hole | Point Type | Steel Thickness       | Max Fixture Thickness | Width Across Flats | Recommended Drill Speed | Head Thickness       | Washer Outer diameter |
|               | (d)         | (L)    | (L <sub>th</sub> ) | (d <sub>f</sub> )      | -          | (t <sub>steel</sub> ) | (t <sub>fix</sub> )   | (A/F)              | -                       | (t <sub>head</sub> ) | d <sub>2</sub>        |
|               | mm          | mm     | mm                 | mm                     | mm         | mm                    | mm                    | in (mm)            | RPM                     | mm                   | mm                    |
| Light Section |             |        |                    |                        |            |                       |                       |                    |                         |                      |                       |
| MFL55025W16   | 5.5         | 25     | 18                 | > 5.5mm                | 3          | 1.2-3.0               | 7                     | 5/16" (8)          | 1000-1800               | 5                    | 11                    |
| MFL55032W16   | 5.5         | 32     | 25                 |                        | 3          | 1.2-3.0               | 14                    |                    |                         |                      |                       |
| MFL55038W16   | 5.5         | 38     | 31                 |                        | 3          | 1.2-3.0               | 20                    |                    |                         |                      |                       |
| MFL55043W16   | 5.5         | 43     | 36                 |                        | 3          | 1.2-3.0               | 25                    |                    |                         |                      |                       |
| MFL55050W16   | 5.5         | 50     | 43                 |                        | 3          | 1.2-3.0               | 32                    |                    |                         |                      |                       |
| MFL55057W16   | 5.5         | 57     | 50                 |                        | 3          | 1.2-3.0               | 39                    |                    |                         |                      |                       |
| MFL55070W16   | 5.5         | 70     | 63                 |                        | 3          | 1.2-3.0               | 52                    |                    |                         |                      |                       |
| MFL55075W16   | 5.5         | 75     | 68                 |                        | 3          | 1.2-3.0               | 57                    |                    |                         |                      |                       |
| Heavy Section |             |        |                    |                        |            |                       |                       |                    |                         |                      |                       |
| MFH55022W16   | 5.5         | 22     | 10                 | > 5.5                  | 4          | 3.0-6.0               | 2                     | 5/16" (8)          | 2000-2200               | 5                    | 11                    |
| MFH55032W16   | 5.5         | 32     | 17                 |                        | 5          | 4.0-12.5              | 2                     |                    |                         |                      |                       |
| MFH55040W16   | 5.5         | 40     | 25                 |                        | 5          | 4.0-12.5              | 10                    |                    |                         |                      |                       |
| MFH55050W16   | 5.5         | 50     | 35                 |                        | 5          | 4.0-12.5              | 20                    |                    |                         |                      |                       |
| MFH55060W16   | 5.5         | 60     | 45                 |                        | 5          | 4.0-12.5              | 30                    |                    |                         |                      |                       |
| MFH55070W16   | 5.5         | 70     | 55                 |                        | 5          | 4.0-12.5              | 40                    |                    |                         |                      |                       |
| MFH55080W16   | 5.5         | 80     | 65                 |                        | 5          | 4.0-12.5              | 50                    |                    |                         |                      |                       |
| MFH55100W16   | 5.5         | 100    | 85                 |                        | 5          | 4.0-12.5              | 70                    |                    |                         |                      |                       |
| MFH55120W16   | 5.5         | 120    | 105                |                        | 5          | 4.0-12.5              | 90                    |                    |                         |                      |                       |





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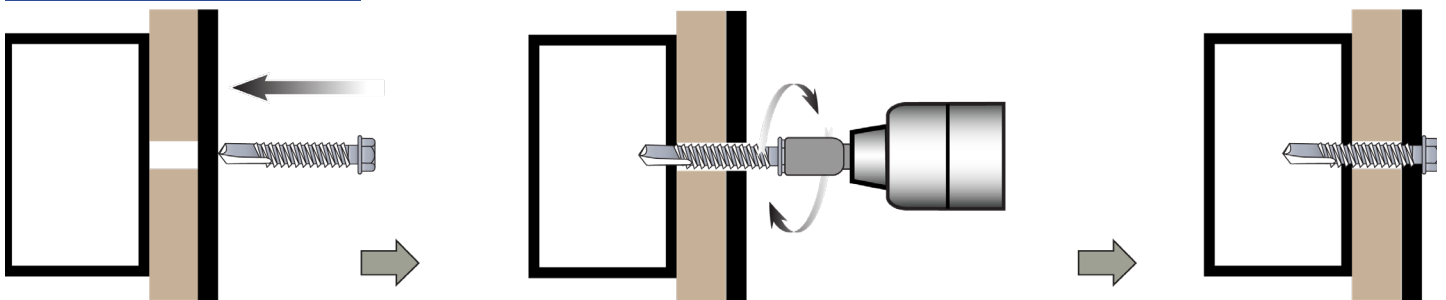


### Performance Data

| Diameter                                     | Point Type | Steel Thickness |      |      |      |      |      |      |      |      |
|--|------------|-----------------|------|------|------|------|------|------|------|------|
|  |            | $t_{steel}$     |      |      |      |      |      |      |      |      |
| mm   | -          | mm              |      |      |      |      |      |      |      |      |
|  |            | 1.2             | 1.4  | 1.8  | 2.0  | 2.5  | 3.0  | 4.0  | 5.0  | ≥6.0 |
| Recommended Tensile Resistance ( $N_{Rec}$ ) |            |                 |      |      |      |      |      |      |      |      |
| kN   |            |                 |      |      |      |      |      |      |      |      |
| 5.5  | 3          | 0.76            | 1.00 | 1.28 | 1.56 | 2.41 | 2.90 | -    | -    | -    |
|  | 4          | -               | -    | -    | -    | -    | 2.00 | 2.10 | 4.00 | 5.00 |
|  | 5          | -               | -    | -    | -    | -    | -    | 2.30 | 5.50 | 5.90 |
| Recommended Shear Resistance ( $V_{Rec}$ )   |            |                 |      |      |      |      |      |      |      |      |
| kN   |            |                 |      |      |      |      |      |      |      |      |
| 5.5  | 3          | 2.00            | 2.20 | 2.41 | 2.82 | 2.85 | 2.85 | -    | -    | -    |
|  | 4          | -               | -    | -    | -    | -    | 2.85 | 2.85 | 2.85 | 2.85 |
|  | 5          | -               | -    | -    | -    | -    | -    | 3.90 | 3.90 | 3.90 |

\* All loads are Recommended Loads and include an appropriate factor of safety.

### INSTALLATION INSTRUCTIONS

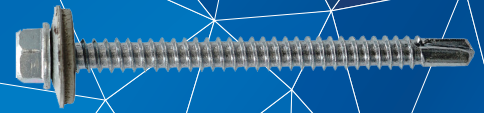


-Pre drill the fixture if it is necessary















-Connect the magnetic socket to a screw gun with a depth sensitive nose-piece and adjust the drill speed according to the data provided. Do not use any tools that generate high torque values (e.g. impact drivers)

-Fastener should penetrate the steel by three screw threads





### SUPPLEMENTARY DATA

| COLOURED COVER CAPS |                 |                              |   |
|---------------------|-----------------|------------------------------|---|
| Part Number         |                 | Colour                       |   |
| For 16mm Washer     | For 19mm Washer |                              |   |
| MFC16AN             | MFC19AN         | Anthracite (18A14)           |    |
| MFC16BL             | MFC19BL         | Black (00E53)                |    |
| MFC16GG             | MFC19GG         | Goosewing Light Grey (10A05) |    |
| MFC16JG             | MFC19JG         | Juniper Green (12B29)        |    |
| MFC16MG             | MFC19MG         | Merlin Dark Grey (18B25)     |   |
| MFC16MO             | MFC19MO         | Moorland Green (12B21)       |  |
| MFC16MU             | MFC19MU         | Mushroom (10B19)             |  |
| MFC16OB             | MFC19OB         | Ocean Blue (18C39)           |  |
| MFC16OG             | MFC19OG         | Olive Green (12B27)          |  |
| MFC16PR             | MFC19PR         | Poppy Red (04E53)            |  |
| MFC16SB             | MFC19SB         | Slate Blue (18B29)           |  |
| MFC16SG             | MFC19SG         | Slate Grey (18B27)           |  |
| MFC16VB             | MFC19VB         | Vandyke Brown (08B29)        |  |
| MFC16WH             | MFC19WH         | White (00E55)                |  |

