

# Fixings

## Expander bolt



TEX

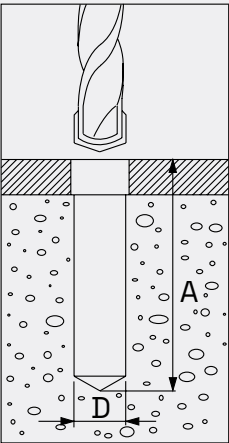
Expander bolt including nut and washer. Suitable for installations in concrete or natural stone materials. Fast-grip design – the bolt secures with just a few turns of the nut.

| Description | Qty/pkg | PG (C2)  | HDG (C3) | AISI 316L (CX) |
|-------------|---------|----------|----------|----------------|
| M6x40       | 100     | IMT38005 | IMT38013 | IMT38021       |
| M6x70       | 100     | IMT38006 | IMT38014 | IMT38022       |
| M8x50       | 100     | IMT38007 | IMT38015 | IMT38023       |
| M8x95       | 50      | IMT38008 | IMT38016 | IMT38024       |
| M10x60      | 50      | IMT38009 | IMT38017 | IMT38025       |
| M10x105     | 25      | IMT38010 | IMT38018 | IMT38026       |
| M12x85      | 25      | -        | IMT38019 | -              |
| M12x125     | 25      | -        | IMT38020 | -              |

Technical data – Shear / Tensile strength (1 kN ≈ 100 kg)  
Concrete grade: C20/25

| Description | Installation Depth (mm) | Serviceability Limit State (kN) | Safety Class 1 (kN) |         | Safety Class 2 (kN) |         | Practical Load Capacity (kN) |         | Accidental Load (kN) |         |
|-------------|-------------------------|---------------------------------|---------------------|---------|---------------------|---------|------------------------------|---------|----------------------|---------|
|             |                         |                                 | Shear               | Tensile | Shear               | Tensile | Shear                        | Tensile | Shear                | Tensile |
| M6          | 28                      | 4,5                             | 2,9                 | 2,8     | 2,6                 | 2,5     | 2,2                          | 2,1     | 5,1                  | 5,1     |
| M8          | 35                      | 8,7                             | 6,4                 | 4,5     | 5,8                 | 4,1     | 4,8                          | 3,4     | 12                   | 8,9     |
|             | 55                      | 9,0                             | –                   | 5,9     | –                   | 5,3     | –                            | 4,4     | –                    | 10,7    |
| M10         | 40                      | 9,9                             | 9,8                 | 5,2     | 8,9                 | 4,7     | 7,4                          | 3,9     | 18,6                 | 9,9     |
|             | 70                      | 16,2                            | –                   | 10,6    | –                   | 9,6     | –                            | 8,0     | –                    | 21,1    |
| M12         | 60                      | 20,4                            | 14,3                | 10,7    | 13,0                | 9,7     | 10,8                         | 8,1     | 27,7                 | 20,2    |
|             | 80                      | 20,7                            | –                   | 15,0    | –                   | 13,6    | –                            | 11,4    | –                    | 28,6    |

## Installation information

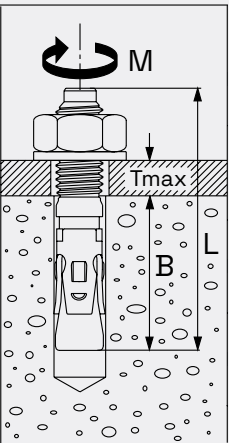


| Dim<br>TEX | L<br>Length<br>Expander<br>(mm) | D<br>Drill<br>diam.<br>(mm) | A<br>Drill<br>depth<br>(mm) | T<br>(mm) | B<br>(mm) | Torque<br><br>M<br>(Nm) | Edge Distance<br>(mm) |
|------------|---------------------------------|-----------------------------|-----------------------------|-----------|-----------|-------------------------|-----------------------|
| M6 x       | 40                              | 6                           | 37                          | 3         | 28*       | 8                       | 60                    |
| M6 x       | 70                              | 6                           | 67                          | 26        | 35*       | 8                       | 60                    |
| M8 x       | 50                              | 8                           | 48                          | 5         | 35*       | 23                      | 80                    |
| M8 x       | 95                              | 8                           | 93                          | 30        | 55        | 23                      | 80                    |
| M10 x      | 60                              | 10                          | 57                          | 7         | 40        | 35                      | 100                   |
| M10 x      | 105                             | 10                          | 102                         | 22        | 70        | 35                      | 100                   |
| M12 x      | 85                              | 12                          | 82                          | 10        | 60        | 55                      | 120                   |
| M12 x      | 125                             | 12                          | 122                         | 30        | 80        | 55                      | 120                   |

\*Installation depths less than 40 mm are only permitted in Safety Class 1.

**Safety Class 1:** Fastening of installations such as ventilation ducts and cable ladders, or external wall cladding of limited height, e.g. facing brick walls up to 3.5 metres. This also includes lightweight suspended ceilings such as acoustic panels, etc. Also applicable to joints intended to fix positions with low loads.

**Edge distance and spacing between fasteners:** Recommended edge distances are listed in the table above for each dimension. Near a corner, the edge distance should be 3 times the stated value. The spacing between two expanders in a joint should be 2 times the stated edge distance.



## Concrete screw – Multi Monti MMS

## Rounded head

Concrete screw with rounded head. Suitable for concrete and solid brick materials. Installation using screwdriver or spanner.



| Description           | Qty/<br>pkg | EG (C1)  | HDG (C4) | AISI 316L<br>(CX) |
|-----------------------|-------------|----------|----------|-------------------|
| 5x30<br>Bit Type T-20 | 200         | IMT38040 | –        | –                 |

With hex head, including washer

Concrete screw with hexagonal head. Suitable for concrete and brick materials. Installation using screwdriver or spanner.



| Description                                     | Qty/<br>pkg | EG (C1)  | HDG (C4) | AISI 316L<br>(CX) |
|-------------------------------------------------|-------------|----------|----------|-------------------|
| 6x40<br>Washer 7x16x1,5<br>Spanner size 10 mm   | 100         | IMT38042 | –        | –                 |
| 6x50<br>Washer 7x16x1,5<br>Spanner size 10 mm   | 100         | IMT38038 | –        | –                 |
| 6x60<br>Washer 7x16x1,5<br>Spanner size 10 mm   | 100         | IMT38039 | –        | –                 |
| 7,5x40<br>Washer 8x19x1,5<br>Spanner size 13 mm | 100         | IMT38028 | –        | –                 |
| 7,5x50<br>Washer 8x19x1,5<br>Spanner size 13 mm | 50          | IMT38029 | –        | –                 |

## With hex head

Concrete screw with hexagonal head. Suitable for concrete and solid brick materials. Installation using screwdriver or spanner.



| Width                        | Qty/<br>pkg | EG (C1)  | HDG (C4) | AISI 316L<br>(CX) |
|------------------------------|-------------|----------|----------|-------------------|
| 7,5x35<br>Spanner size 13 mm | 100         | IMT38027 | –        | –                 |
| 10x60<br>Spanner size 16 mm  | 50          | IMT38030 | IMT38043 | –                 |

With hex head and  
integrated washer

Concrete screw with hexagonal head and integrated washer. Suitable for concrete and solid brick materials. Installation using screwdriver or spanner.



| Width                          | Qty/<br>pkg | EG (C1)  | HdG (C4) | AISI 316L<br>(C3) |
|--------------------------------|-------------|----------|----------|-------------------|
| 7,5x50/65<br>Spanner size 8 mm | 50          | –        | –        | 1556694           |
| 7,5x50<br>Spanner size 10 mm   | 50          | IMT38050 | –        | –                 |
| 7,5x70<br>Spanner size 10 mm   | 50          | –        | IMT38051 | –                 |
| 6x40<br>Spanner size 8 mm      | 100         | –        | IMT38044 | –                 |
| 7,5x50<br>Spanner size 10 mm   | 50          | –        | IMT38046 | –                 |

## Maximum recommended load for Multi Monti concrete screws in concrete

| Screw size                                                  |                    |    | MMS-5 |     | MMS-6 |     |     | MMS-7.5 |     |     | MMS-10 |       |
|-------------------------------------------------------------|--------------------|----|-------|-----|-------|-----|-----|---------|-----|-----|--------|-------|
|                                                             |                    |    |       |     |       |     |     |         |     |     |        |       |
| Max. recommended tensile load per screw (not near edge)     |                    |    | nr    | 1,8 | nr    | 1,7 | 2,7 | nr      | 2,6 | 3,8 | 3,6    | 4,9   |
| Cracked concrete                                            | kN                 |    | nr    | 1,8 | nr    | 1,7 | 2,7 | nr      | 2,6 | 3,8 | 3,6    | 4,9   |
| Non-cracked concrete                                        | kN                 |    | 1,9   | 2,6 | 1,9   | 2,4 | 3,8 | 2,2     | 3,7 | 5,3 | 5,0    | 6,8   |
| Max. recommended shear load per screw (not near edge)       |                    |    |       |     |       |     |     |         |     |     |        |       |
| Cracked concrete                                            | kN                 |    | nr    | 2,0 | nr    | 1,5 | 3,1 | nr      | 2,4 | 3,4 | 4,5    | 7,9   |
| Non-cracked concrete                                        | kN                 |    | nr    | 2,0 | nr    | 2,1 | 3,1 | 1,9     | 3,4 | 3.4 | 6,3    | 7,9   |
| Max. recommended bending load per screw                     |                    |    |       |     |       |     |     |         |     |     |        |       |
|                                                             | Nm                 |    | nr    | nr  | nr    | 5,1 | 5,1 | 9,4     | 9,4 | 9,4 | 18,7   | 18,7  |
| Minimum Centre-to-Centre distance and minimum edge distance |                    |    |       |     |       |     |     |         |     |     |        |       |
| Embedment depth                                             | h <sub>nom</sub> ≥ | mm | 30    | 35  | 30    | 35  | 45  | 35      | 45  | 55  | 55     | 65/75 |
| Minimum distance                                            | s <sub>min</sub> = | mm | 35    | 35  | 40    | 40  | 40  | 40      | 40  | 40  | 50     | 50    |
| Minimum edge distance                                       | c <sub>min</sub> = | mm | 35    | 35  | 40    | 40  | 40  | 40      | 40  | 40  | 50     | 50    |
| Concrete thickness                                          | h <sub>min</sub> = | mm | –     | –   | –     | 100 | 100 | 100     |     |     | 120    |       |

## Technical information

|        |                           |                                                                                       | L<br>mm | t <sub>Rz</sub><br>mm | SW<br>mm | d <sub>f</sub><br>mm | h <sub>1</sub><br>mm | Ø d <sub>0</sub><br>mm | h <sub>nom</sub><br>mm | T <sub>inst</sub><br>Nm |
|--------|---------------------------|---------------------------------------------------------------------------------------|---------|-----------------------|----------|----------------------|----------------------|------------------------|------------------------|-------------------------|
| MMS-P  | 5 x 30                    |  | 30      | 1                     | T25      | 6                    | 35                   | 4                      | 30                     | 8                       |
| MMS-S  | 6 x 40                    |  | 40      | 5                     | 10       | 7                    | 45                   | 5                      | 35                     | 12                      |
| MMS-S  | 6 x 50 <sup>1)</sup>      |                                                                                       | 50      | 5                     | 10       | 7                    | 55                   | 5                      | 45                     | 12                      |
| MMS-S  | 6 x 60 <sup>1)</sup>      |                                                                                       | 60      | 15                    | 10       | 7                    | 55                   | 5                      | 45                     | 12                      |
| MMS-S  | 7,5 x 35                  |                                                                                       | 35      | 1                     | 13       | 9                    | 40                   | 6                      | 35                     | 20                      |
| MMS-S  | 7,5 x 40                  |                                                                                       | 40      | 5                     | 13       | 9                    | 45                   | 6                      | 35                     | 20                      |
| MMS-S  | 7,5 x 50 <sup>1)</sup>    |                                                                                       | 50      | 5                     | 13       | 9                    | 55                   | 6                      | 45                     | 20                      |
| MMS-S  | 10 x 60 <sup>1)</sup>     |                                                                                       | 60      | 5                     | 16       | 12                   | 65                   | 8                      | 55                     | 50                      |
| MMS-S  | 7,5 x 50/65 <sup>3)</sup> |  | 50      | 5                     | 13       | 9                    | 70                   | 6                      | 45                     | 20                      |
| MMS-MF | 6 x 40                    |  | 40      | 5                     | 10       | 7                    | 45                   | 5                      | 35                     | 12                      |
| MMS-MF | 6 x 50 <sup>1)</sup>      |                                                                                       | 50      | 5                     | 10       | 7                    | 55                   | 5                      | 45                     | 12                      |
| MMS-MF | 6 x 60 <sup>1)</sup>      |                                                                                       | 60      | 15                    | 10       | 7                    | 55                   | 5                      | 45                     | 12                      |
| MMS-MF | 7,5 x 50 <sup>1)</sup>    |                                                                                       | 50      | 5                     | 13       | 9                    | 55                   | 6                      | 45                     | 20                      |
| MMS-MF | 7,5 x 70 <sup>2)</sup>    |                                                                                       | 70      | 5                     | 13       | 9                    | 75                   | 6                      | 65                     | 20                      |

1) DIBt Zulassung Nr. Z-21.1-1503  
2) ETA 05/0010  
3) Stainless steel AISI 316L (CX)