

**MKT<sup>®</sup> Wedge Anchor B A4**  
Stainless steel A4/316



**Description**

The Wedge Anchor B A4 is the stainless steel version of Wedge Anchor B. It offers excellent load bearing capacities, small anchor spacings and edge distances.

Wedge Anchor B HCR (high corrosion resistant) in stainless steel 1.4529 on request.

**Applications**

Indoor and outdoor medium to heavy duty applications: Suspended ceilings (M6-M10), metal constructions, channels, brackets, supports, cladding systems, hand rails, cable trays, ducts.

Range of concrete quality: C20/25 - C50/60



Software available

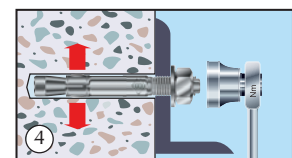
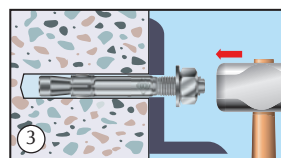
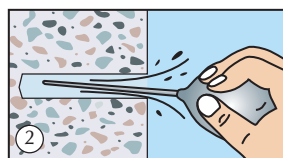
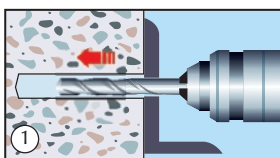
| Loads and performance data         |        |      | M6   | M8   | M10   | M12   | M16   | M20    |
|------------------------------------|--------|------|------|------|-------|-------|-------|--------|
| <b>non-cracked concrete C25/30</b> |        |      |      |      |       |       |       |        |
| Recommended loads, tension         | rec. N | [kN] | 2.80 | 4.40 | 5.90  | 11.00 | 15.40 | 20.16  |
| Recommended loads, shear           | rec. V | [kN] | 3.20 | 5.70 | 7.30  | 13.50 | 23.60 | 29.50  |
| Recommended bending moments        | rec. M | [Nm] | 3.90 | 9.70 | 19.20 | 33.70 | 85.60 | 166.20 |

**Installation parameters**

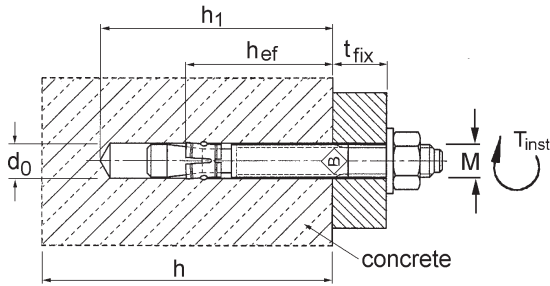
|   |                   |      |     |     |     |     |     |     |
|---|-------------------|------|-----|-----|-----|-----|-----|-----|
| Drill hole diameter                       | d <sub>o</sub>    | [mm] | 6   | 8   | 10  | 12  | 16  | 20  |
| Diameter of clearance hole in the fixture | d <sub>f</sub>    | [mm] | 7   | 9   | 12  | 14  | 18  | 22  |
| Depth of drill hole                       | h <sub>1</sub>    | [mm] | 55  | 65  | 70  | 90  | 110 | 130 |
| Effective anchorage depth                 | h <sub>ef</sub>   | [mm] | 40  | 44  | 48  | 65  | 80  | 100 |
| Minimum thickness of concrete slab        | h                 | [mm] | 100 | 100 | 100 | 130 | 160 | 200 |
| Installation torque                       | T <sub>inst</sub> | [Nm] | 6   | 15  | 25  | 50  | 100 | 160 |
| Width across nut                          | SW                | [mm] | 10  | 13  | 17  | 19  | 24  | 30  |

Load performance of reduced anchorage depth should refer design product data sheet

**Installation of MKT B A4 Wedge Anchor**



1. Drill to specified diameter and depth.
2. Clean the hole with blow-out bulb.
3. Drive anchor carefully with hammer into hole until nut and washer are flush with fixture.
4. Install fixture and tighten anchor to specified torque. If the marking in the threaded part of the anchor bolt becomes visible, do not load anchor.  
Refer to approvals and schedules for design and building code compliance.



**DIBt approval Z-21.1-1598**

Recommended tension loads for single anchor without influence of spacing and edge distance, total safety factor 3

| Tension [kN]      |      | Non-cracked concrete |      |       |       |       |  |
|-------------------|------|----------------------|------|-------|-------|-------|--|
| Concrete strength | M6   | M8                   | M10  | M12   | M16   | M20   |  |
| C20/25            | 2.52 | 3.96                 | 5.31 | 9.90  | 13.86 | 18.14 |  |
| C25/30            | 2.80 | 4.40                 | 5.90 | 11.00 | 15.40 | 20.16 |  |
| C30/37            | 3.08 | 4.84                 | 6.49 | 12.10 | 16.94 | 22.17 |  |
| C40/50            | 3.55 | 5.58                 | 7.49 | 13.97 | 19.55 | 25.60 |  |
| C50/60            | 3.92 | 6.16                 | 8.26 | 15.40 | 21.56 | 28.22 |  |

Recommended shear loads for single anchor without influence of spacing and edge distance, total safety factor 3 in non-cracked concrete from C20/25 up to C50/60

| Shear [kN]        |      | Non-cracked concrete |      |       |       |       |  |
|-------------------|------|----------------------|------|-------|-------|-------|--|
| Concrete strength | M6   | M8                   | M10  | M12   | M16   | M20   |  |
| ≥ C20/25          | 3.20 | 5.70                 | 7.30 | 13.50 | 23.60 | 29.50 |  |

**Wedge Anchor B A4**



- Stainless steel A4/316
- DIBt Approval for non-cracked concrete

| Item No    | Description     | Drill hole<br>Ø x depth<br>mm | Setting<br>depth<br>mm | Fixture<br>thickness<br>t <sub>fix</sub><br>mm | Anchor<br>length<br>l<br>mm | Thread<br>Ø x length<br>mm | Pkg.<br>cont.<br>pcs. | Weight<br>per<br>pkg.<br>kg |
|------------|-----------------|-------------------------------|------------------------|--|-----------------------------|----------------------------|-----------------------|-----------------------------|
| 2020106040 | B 6-5/40* A4    | 6 x 40                        | 30                     | 5  | 40                          | M6 x 16                    | 100                   | 1.12                        |
| 2020106052 | B 6-5/52* A4    | 6 x 45                        | 40                     | 5  | 52                          | M6 x 16                    | 100                   | 1.38                        |
| 2020106067 | B 6-10/67 A4    | 6 x 60                        | 48                     | 10   | 67                          | M6 x 30                    | 100                   | 1.62                        |
| 2020106082 | B 6-25/82 A4    | 6 x 60                        | 48                     | 25   | 82                          | M6 x 35                    | 100                   | 2.07                        |
| 2020106097 | B 6-40/97 A4    | 6 x 60                        | 48                     | 40   | 97                          | M6 x 35                    | 100                   | 2.35                        |
| 2020108050 | B 8-5/50* A4    | 8 x 45                        | 35                     | 5  | 50                          | M8 x 22                    | 100                   | 2.32                        |
| 2020108060 | B 8-10/60* A4   | 8 x 50                        | 40                     | 10   | 60                          | M8 x 25                    | 100                   | 2.74                        |
| 2020108075 | B 8-10/75 A4    | 8 x 65                        | 55                     | 10   | 75                          | M8 x 40                    | 100                   | 3.44                        |
| 2020108080 | B 8-15/80 A4    | 8 x 65                        | 55                     | 15   | 80                          | M8 x 45                    | 100                   | 3.55                        |
| 2020108085 | B 8-20/85 A4    | 8 x 65                        | 55                     | 20   | 85                          | M8 x 50                    | 100                   | 3.84                        |
| 2020108095 | B 8-30/95 A4    | 8 x 65                        | 55                     | 30   | 95                          | M8 x 60                    | 100                   | 4.19                        |
| 2020108110 | B 8-45/110 A4   | 8 x 65                        | 55                     | 45   | 110                         | M8 x 75                    | 100                   | 4.78                        |
| 2020108120 | B 8-55/120 A4   | 8 x 65                        | 55                     | 55   | 120                         | M8 x 80                    | 100                   | 5.09                        |
| 2020110060 | B 10-10/60* A4  | 10 x 50                       | 40                     | 10   | 60                          | M10 x 25                   | 50                    | 2.31                        |
| 2020110085 | B 10-10/85 A4   | 10 x 70                       | 60                     | 10   | 85                          | M10 x 40                   | 50                    | 3.00                        |
| 2020110090 | B 10-15/90 A4   | 10 x 70                       | 60                     | 15   | 90                          | M10 x 45                   | 50                    | 3.06                        |
| 2020110095 | B 10-20/95 A4   | 10 x 70                       | 60                     | 20   | 95                          | M10 x 50                   | 50                    | 3.26                        |
| 2020110105 | B 10-30/105 A4  | 10 x 70                       | 60                     | 30   | 105                         | M10 x 60                   | 50                    | 3.47                        |
| 2020110120 | B 10-45/120 A4  | 10 x 70                       | 60                     | 45   | 120                         | M10 x 75                   | 50                    | 4.00                        |
| 2020110125 | B 10-50/125 A4  | 10 x 70                       | 60                     | 50   | 125                         | M10 x 80                   | 50                    | 4.21                        |
| 2020110145 | B 10-70/145 A4  | 10 x 70                       | 60                     | 70   | 145                         | M10 x 80                   | 50                    | 4.84                        |
| 2020110175 | B 10-100/175 A4 | 10 x 70                       | 60                     | 100  | 175                         | M10 x 80                   | 50                    | 5.70                        |
| 2020110215 | B 10-140/215 A4 | 10 x 70                       | 60                     | 140  | 215                         | M10 x 80                   | 25                    | 3.79                        |
| 2020112075 | B 12-5/75* A4   | 12 x 60                       | 55                     | 5  | 75                          | M12 x 30                   | 25                    | 2.10                        |
| 2020112095 | B 12-10/95* A4  | 12 x 80                       | 70                     | 10   | 95                          | M12 x 50                   | 25                    | 2.50                        |
| 2020112105 | B 12-10/105 A4  | 12 x 90                       | 80                     | 10   | 105                         | M12 x 60                   | 25                    | 2.55                        |
| 2020112110 | B 12-15/110 A4  | 12 x 90                       | 80                     | 15   | 110                         | M12 x 65                   | 25                    | 2.62                        |
| 2020112115 | B 12-20/115 A4  | 12 x 90                       | 80                     | 20   | 115                         | M12 x 70                   | 25                    | 2.84                        |
| 2020112125 | B 12-30/125 A4  | 12 x 90                       | 80                     | 30   | 125                         | M12 x 70                   | 25                    | 3.11                        |
| 2020112145 | B 12-50/145 A4  | 12 x 90                       | 80                     | 50   | 145                         | M12 x 100                  | 25                    | 3.48                        |
| 2020112160 | B 12-65/160 A4  | 12 x 90                       | 80                     | 65   | 160                         | M12 x 100                  | 25                    | 3.82                        |
| 2020112180 | B 12-85/180 A4  | 12 x 90                       | 80                     | 85   | 180                         | M12 x 80                   | 25                    | 4.21                        |
| 2020112200 | B 12-105/200 A4 | 12 x 90                       | 80                     | 105  | 200                         | M12 x 80                   | 25                    | 4.64                        |
| 2020112220 | B 12-125/220 A4 | 12 x 90                       | 80                     | 125  | 220                         | M12 x 80                   | 25                    | 5.10                        |
| 2020112240 | B 12-145/240 A4 | 12 x 90                       | 80                     | 145  | 240                         | M12 x 80                   | 20                    | 4.48                        |
| 2020116090 | B 16-5/90* A4   | 16 x 70                       | 65                     | 5  | 90                          | M16 x 35                   | 20                    | 3.36                        |
| 2020116115 | B 16-15/115* A4 | 16 x 90                       | 80                     | 15   | 115                         | M16 x 60                   | 20                    | 4.14                        |
| 2020116130 | B 16-10/130 A4  | 16 x 110                      | 100                    | 10   | 130                         | M16 x 70                   | 20                    | 4.50                        |
| 2020116150 | B 16-30/150 A4  | 16 x 110                      | 100                    | 30   | 150                         | M16 x 80                   | 20                    | 5.04                        |
| 2020116180 | B 16-60/180 A4  | 16 x 110                      | 100                    | 60   | 180                         | M16 x 80                   | 20                    | 6.01                        |
| 2020116200 | B 16-80/200 A4  | 16 x 110                      | 100                    | 80   | 200                         | M16 x 80                   | 10                    | 3.45                        |
| 2020116220 | B 16-100/220 A4 | 16 x 110                      | 100                    | 100  | 220                         | M16 x 80                   | 10                    | 3.77                        |
| 2020116250 | B 16-130/250 A4 | 16 x 110                      | 100                    | 130  | 250                         | M16 x 80                   | 10                    | 4.25                        |
| 2020116320 | B 16-200/320 A4 | 16 x 110                      | 100                    | 200  | 320                         | M16 x 80                   | 10                    | 5.25                        |
| 2020120150 | B 20-5/150 A4   | 20 x 130                      | 120                    | 5  | 150                         | M20 x 45                   | 10                    | 4.06                        |
| 2020120180 | B 20-35/180 A4  | 20 x 130                      | 120                    | 35   | 180                         | M20 x 70                   | 10                    | 4.96                        |
| 2020120205 | B 20-60/205 A4  | 20 x 130                      | 120                    | 60   | 205                         | M20 x 70                   | 10                    | 5.55                        |
| 2020120240 | B 20-95/240 A4  | 20 x 130                      | 120                    | 95   | 240                         | M20 x 70                   | 10                    | 6.50                        |

\*) Not part of DIBt approval for reduced anchorage depth