

# ResiFIX Anchor studs

## Approvals and certificates



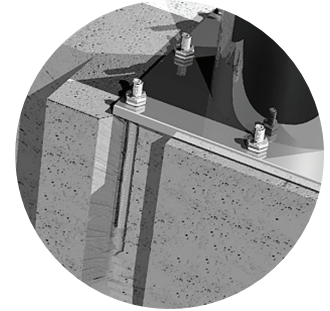
European Technical Assessment  
Option 1 for cracked concrete



European Technical Assessment  
Option 7 for non-cracked concrete



European Technical Assessment  
for masonry



### RESI AST, zinc plated 5.8 with nut and washer

| Type<br>$d_s \times L$ | Art-No     | in concrete   |                       |                                             |                              |                                               | in solid brick      |                        | in hollow brick  |                        | €/ 100 pcs |    |     |
|------------------------|------------|---------------|-----------------------|---------------------------------------------|------------------------------|-----------------------------------------------|---------------------|------------------------|------------------|------------------------|------------|----|-----|
|                        |            | $d_0$<br>[mm] | $h_{ef, min}$<br>[mm] | $t_{fix, max}$<br>for $h_{ef, min}$<br>[mm] | $h_{ef, Stand}^{1)}$<br>[mm] | $t_{fix, max}$<br>for $h_{ef, stand}$<br>[mm] | $d_0 - h_0$<br>[mm] | $t_{fix, max}$<br>[mm] | Sleeve<br>[Type] | $t_{fix, max}$<br>[mm] |            |    |     |
| M8x110                 | 98110RAST  | 10            | 60                    | 40                                          | 80                           | 20                                            | 10 - 80             | 20                     | SH 12x80         | 20                     |            | 10 | 100 |
| M8x130                 | 98130RAST  | 10            | 60                    | 60                                          | 80                           | 40                                            | 10 - 80             | 40                     | SH 12x80         | 40                     |            | 10 | 100 |
| M10x110                | 910110RAST | 12            | 60                    | 40                                          | 90                           | 10                                            | 12 - 90             | 10                     | SH 16x85         | 15                     |            | 10 | 100 |
| M10x130                | 910130RAST | 12            | 60                    | 60                                          | 90                           | 30                                            | 12 - 90             | 30                     | SH 16x85         | 35                     |            | 10 | 100 |
| M10x170                | 910170RAST | 12            | 60                    | 100                                         | 90                           | 70                                            | 12 - 90             | 70                     | SH 16x85         | 75                     |            | 10 | 100 |
| M10x200                | 910200RAST | 12            | 60                    | 130                                         | 90                           | 100                                           | 12 - 90             | 100                    | SH 16x85         | 105                    |            | 10 | 60  |
| M12x130                | 912130RAST | 14            | 70                    | 45                                          | 110                          | 5                                             | 14 - 100            | 15                     | SH 20x85         | 30                     |            | 10 | 100 |
| M12x160                | 912160RAST | 14            | 70                    | 75                                          | 110                          | 35                                            | 14 - 100            | 45                     | SH 20x85         | 60                     |            | 10 | 100 |
| M12x210                | 912210RAST | 14            | 70                    | 125                                         | 110                          | 85                                            | 14 - 100            | 95                     | SH 20x85         | 110                    |            | 10 | 60  |
| M16x160                | 916160RAST | 18            | 80                    | 60                                          | 125                          | 15                                            | 18 - 100            | 40                     | SH 20x85         | 60                     |            | 10 | 60  |
| M16x190                | 916190RAST | 18            | 80                    | 90                                          | 125                          | 45                                            | 18 - 100            | 70                     | SH 20x85         | 90                     |            | 10 | 60  |
| M16x235                | 916235RAST | 18            | 80                    | 135                                         | 125                          | 90                                            | 18 - 100            | 115                    | SH 20x85         | 135                    |            | 10 | 40  |
| M20x240                | 920240RAST | 24            | 90                    | 130                                         | 170                          | 50                                            | not suitable        |                        | not suitable     |                        |            | 5  | 20  |
| M24x300                | 924300RAST | 28            | 96                    | 180                                         | 210                          | 65                                            | not suitable        |                        | not suitable     |                        |            | 5  | 20  |



### RESI AST, stainless steel A4 with nut and washer

**A4**  
STAINLESS  
STEEL

| Type<br>$d_s \times L$ | Art-No      | in concrete   |                       |                                             |                              |                                               | in solid brick      |                        | in hollow brick  |                        | €/ 100 pcs |    |     |
|------------------------|-------------|---------------|-----------------------|---------------------------------------------|------------------------------|-----------------------------------------------|---------------------|------------------------|------------------|------------------------|------------|----|-----|
|                        |             | $d_0$<br>[mm] | $h_{ef, min}$<br>[mm] | $t_{fix, max}$<br>for $h_{ef, min}$<br>[mm] | $h_{ef, Stand}^{1)}$<br>[mm] | $t_{fix, max}$<br>for $h_{ef, stand}$<br>[mm] | $d_0 - h_0$<br>[mm] | $t_{fix, max}$<br>[mm] | Sleeve<br>[Type] | $t_{fix, max}$<br>[mm] |            |    |     |
| M8x110                 | 9X8110RAST  | 10            | 60                    | 40                                          | 80                           | 20                                            | 10 - 80             | 20                     | SH 12x80         | 20                     |            | 10 | 100 |
| M8x130                 | 9X8130RAST  | 10            | 60                    | 60                                          | 80                           | 40                                            | 10 - 80             | 40                     | SH 12x80         | 40                     |            | 10 | 100 |
| M10x110                | 9X10110RAST | 12            | 60                    | 40                                          | 90                           | 10                                            | 12 - 90             | 10                     | SH 16x85         | 15                     |            | 10 | 100 |
| M10x130                | 9X10130RAST | 12            | 60                    | 60                                          | 90                           | 30                                            | 12 - 90             | 30                     | SH 16x85         | 35                     |            | 10 | 100 |
| M10x170                | 9X10170RAST | 12            | 60                    | 100                                         | 90                           | 70                                            | 12 - 90             | 70                     | SH 16x85         | 75                     |            | 10 | 100 |
| M10x200                | 9X10200RAST | 12            | 60                    | 130                                         | 90                           | 100                                           | 12 - 90             | 100                    | SH 16x85         | 105                    |            | 10 | 60  |
| M12x130                | 9X12130RAST | 14            | 70                    | 45                                          | 110                          | 5                                             | 14 - 100            | 15                     | SH 20x85         | 30                     |            | 10 | 100 |
| M12x160                | 9X12160RAST | 14            | 70                    | 75                                          | 110                          | 35                                            | 14 - 100            | 45                     | SH 20x85         | 60                     |            | 10 | 100 |
| M12x210                | 9X12210RAST | 14            | 70                    | 125                                         | 110                          | 85                                            | 14 - 100            | 95                     | SH 20x85         | 110                    |            | 10 | 60  |
| M16x160                | 9X16160RAST | 18            | 80                    | 60                                          | 125                          | 15                                            | 18 - 100            | 40                     | SH 20x85         | 60                     |            | 10 | 60  |
| M16x190                | 9X16190RAST | 18            | 80                    | 90                                          | 125                          | 45                                            | 18 - 100            | 70                     | SH 20x85         | 90                     |            | 10 | 60  |
| M16x235                | 9X16235RAST | 18            | 80                    | 135                                         | 125                          | 90                                            | 18 - 100            | 115                    | SH 20x85         | 135                    |            | 10 | 40  |
| M20x240                | 9X20240RAST | 24            | 90                    | 130                                         | 170                          | 50                                            | not suitable        |                        | not suitable     |                        |            | 5  | 20  |
| M24x300                | 9X24300RAST | 28            | 96                    | 180                                         | 210                          | 65                                            | not suitable        |                        | not suitable     |                        |            | 5  | 20  |

Also suitable for ResiFIX: Anchor studs VA AST for the bonded anchor (with outer hexagon)

Further lengths, steel 8.8, hot-dip galvanized steel and stainless steel HCR on request

1) Standard anchorage depth means the usually used anchorage depth. Min. anchorage depth according to ETA assessment