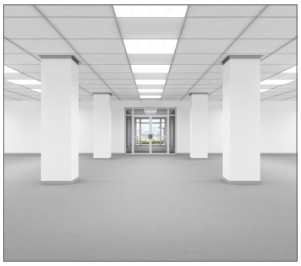
# R-RBL-H Rawlbolt® - krok

## Världens mest populära sköldankare



## Produktinformation

### Fördelar och egenskaper

- RAWLBOLT® - med krok är designad för maximal prestanda
- Tredelad expansionshylsa ger maximal kraftöverföring och perfekt montage i alla underlag
- Rawlbolt med krok är inte lämpliga till alla installationer

### Användningsområden

- Linor, stag och kablar
- Kabelstegar

### Underliggande material

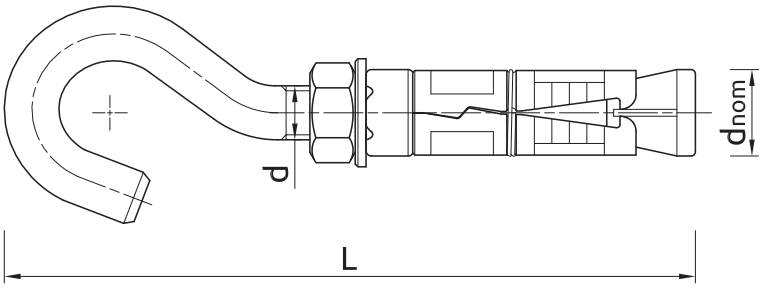
**Godkänd att användas i:**

- Sprucken betong C20/25-C50/60
- Icke sprucken betong C20/25-C50/60
- Oarmerad betong
- Armerad betong
- Fulltegel ≥ 20MPa
- Hålstens lättvikt betongblock LAC 5 ≥ 5MPa
- Ihålig sandkalkssten> 15MPa
- Betonghålsten
- Håldäck C20/25
- Håldäck C30/37-C50/60

## Installationsguide

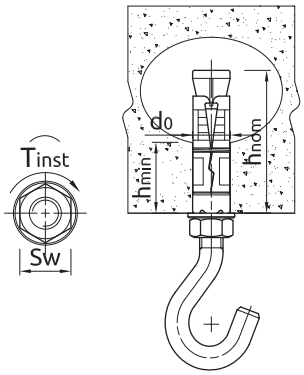
1. Borra ett hål enligt anvisningarna
2. Rengör hålet genom att blåsa det rent.
3. Slå in ankaret så att kroken hamnar i önskad position.
4. Dra åt muttern med angivet åtdragningsmoment.

## Produktinformation




| Storlek | Artikel | Infästning | | |
|---|---|---|---|---|
| | | Diameter | Utvändig diameter | Längd |
| | | d | $d_{nom}$ | L |
| | | [mm] | [mm] | [mm] |
| M6 | R-RBL-06HW | 6 | 12 | 83 |
| M8 | R-RBL-08HW | 8 | 14 | 98 |
| M10 | R-RBL-10HW | 10 | 16 | 120 |
| M12 | R-RBL-12HW | 12 | 20 | 145 |

## Installationsdata




| Storlek | | | M6 | M8 | M10 | M12 |
|---|---|---|---|---|---|---|
| Gängdiameter | d | [mm] | 6 | 8 | 10 | 12 |
| Håldiameter i underliggande material | $d_0$ | [mm] | 12 | 14 | 16 | 20 |
| Minsta installationsdjup | $h_{nom}$ | [mm] | 45 | 50 | 60 | 80 |
| Minsta håldjup i underliggande material | $h_0$ | [mm] | 50 | 55 | 65 | 85 |
| Skiftnyckelstorlek | Sw | [mm] | 10 | 13 | 17 | 19 |
| **SOLIDA UNDERLAG** | | | | | | |
| Vridmoment vid montering | $T_{inst}$ | [Nm] | 6.5 | 15 | 27 | 50 |
| Minsta tjocklek underliggande material (försänkt monta- | $h_{min}$ | [mm] | 100 | 100 | 100 | 100 |
| Minsta inbördes avstånd | $s_{min}$ | [mm] | 35 | 40 | 50 | 60 |
| Minsta kantavstånd | $c_{min}$ | [mm] | 53 | 60 | 75 | 90 |
| **HÅLMATERIAL** | | | | | | |
| Vridmoment vid montering | $T_{inst}$ | [Nm] | 3 | 5 | 8 | 10 |
| Minsta inbördes avstånd | $s_{min}$ | [mm] | 100 | 100 | 100 | 100 |
| Minsta kantavstånd | $c_{min}$ | [mm] | 100 | 100 | 100 | 100 |

# Mekaniska egenskaper

| Storlek | | | M6 | M8 | M10 | M12 |
|---|---|---|---|---|---|---|
| Nominell slutlig draghållfasthet - spändhet | $f_{uk}$ | [N/mm²] | 300 | 300 | 300 | 300 |
| Nominell sträckgräns - spändhet | $f_{yk}$ | [N/mm²] | 180 | 180 | 180 | 180 |
| Tvärsnitt drag | $A_s$ | [mm²] | 20.1 | 36.6 | 58 | 84.3 |
| Elastiska sektionsmoduler | $W_{el}$ | [mm³] | 21.21 | 50.27 | 98.17 | 169.65 |
| Karakteristiskt böjmoment | $M^0_{Rk,s}$ | [Nm] | 12.72 | 30.16 | 58.9 | 101.79 |
| Beräknat böjmotstånd | M | [Nm] | 10.18 | 24.13 | 47.12 | 81.43 |

# Bas prestandadata

Prestandadata för enstaka ankare utan påverkan av kantavstånd och avstånd

| Storlek | | M6 | M8 | M10 | M12 |
|---|---|---|---|---|---|
| **ICKE SPRUCKEN BETONG** | | | | | |
| Effektivt sättdjup $h_{ef}$ | [mm] | 35.00 | 40.00 | 50.00 | 60.00 |
| **CRACKED BETONG** | | | | | |
| Effektivt sättdjup $h_{ef}$ | [mm] | 35.00 | 40.00 | 50.00 | 60.00 |
| **KARAKTERISTISK LAST** | | | | | |
| **DRAGLAST $N_{Rk}$** | | | | | |
| ICKE SPRUCKEN BETONG | [kN] | 2.00 | 4.50 | 7.50 | 10.00 |
| CRACKED BETONG | [kN] | 2.00 | 4.50 | 6.00 | 10.00 |
| **TVÄRLAST $V_{Rk}$** | | | | | |
| ICKE SPRUCKEN BETONG | [kN] | 5.00 | 9.00 | 14.00 | 20.00 |
| CRACKED BETONG | [kN] | 5.00 | 8.71 | 12.17 | 20.00 |
| **BERÄKNAD LAST** | | | | | |
| **DRAGLAST $N_{Rd}$** | | | | | |
| ICKE SPRUCKEN BETONG | [kN] | 1.11 | 2.50 | 5.35 | 5.55 |
| CRACKED BETONG | [kN] | 1.11 | 2.50 | 3.33 | 5.55 |
| **TVÄRLAST $V_{Rd}$** | | | | | |
| ICKE SPRUCKEN BETONG | [kN] | 4.00 | 7.20 | 11.20 | 16.00 |
| CRACKED BETONG | [kN] | 4.00 | 5.81 | 8.12 | 16.00 |

# Bas prestandadata

Prestandadata för enstaka ankare utan påverkan av kantavstånd och avstånd

| Storlek | | | M6 | M8 | M10 | M12 |
|---|---|---|---|---|---|---|
| KARAKTERISTISK LAST | | | | | | |
| DRAGLAST $N_{Rk}$ | | | | | | |
| **Ihålig kärnplatta min. C20 / 25** | | | | | | |
| Väggtjocklek | Materialklass | | | | | |
| 23 | C30/37 | [kN] | 2.00 | 4.50 | - | - |
| | C35/45 | [kN] | 2.00 | 4.50 | - | - |
| | C45/55 | [kN] | 2.00 | 4.50 | - | - |
| | C50/60 | [kN] | 2.00 | 4.50 | - | - |
| 35 | C30/37 | [kN] | 2.00 | 4.50 | 7.50 | - |
| | C35/45 | [kN] | 2.00 | 4.50 | 7.50 | - |
| | C45/55 | [kN] | 2.00 | 4.50 | 7.50 | - |
| | C50/60 | [kN] | 2.00 | 4.50 | 7.50 | - |
| 40 | C30/37 | [kN] | 2.00 | 4.50 | 7.50 | 10.00 |
| | C35/45 | [kN] | 2.00 | 4.50 | 7.50 | 10.00 |
| | C45/55 | [kN] | 2.00 | 4.50 | 7.50 | 10.00 |
| | C50/60 | [kN] | 2.00 | 4.50 | 7.50 | 10.00 |
| 50 | C20/25 | [kN] | 2.00 | 4.50 | 7.50 | 8.50 |
| **Beam-and-block golv (t.ex. Terriva 4.0 / 2), min.** | | [kN] | 1.20 | 2.00 | - | - |
| **Lättbetong LAC klass 5** | | [kN] | 2.00 | 4.50 | 5.50 | 5.50 |
| **Massiv lertegel klass 20** | | [kN] | 2.00 | 4.50 | 6.00 | 6.00 |
| **Ihåligt silikatblock klass 15** | | [kN] | 1.50 | - | - | - |
| TVÄRLAST $V_{Rk}$ | | | | | | |
| **Ihålig kärnplatta min. C20 / 25** | | | | | | |
| Väggtjocklek | Materialklass | | | | | |
| 23 | C30/37 | [kN] | 2.00 | 4.50 | - | - |
| | C35/45 | [kN] | 2.00 | 4.50 | - | - |
| | C45/55 | [kN] | 2.00 | 4.50 | - | - |
| | C50/60 | [kN] | 2.00 | 4.50 | - | - |
| 35 | C30/37 | [kN] | 2.00 | 4.50 | 7.50 | - |
| | C35/45 | [kN] | 2.00 | 4.50 | 7.50 | - |
| | C45/55 | [kN] | 2.00 | 4.50 | 7.50 | - |
| | C50/60 | [kN] | 2.00 | 4.50 | 7.50 | - |
| 40 | C30/37 | [kN] | 2.00 | 4.50 | 7.50 | 10.00 |
| | C35/45 | [kN] | 2.00 | 4.50 | 7.50 | 10.00 |
| | C45/55 | [kN] | 2.00 | 4.50 | 7.50 | 10.00 |
| | C50/60 | [kN] | 2.00 | 4.50 | 7.50 | 10.00 |
| 50 | C20/25 | [kN] | 2.00 | 4.50 | 7.50 | 8.50 |
| **Beam-and-block golv (t.ex. Terriva 4.0 / 2), min.** | | [kN] | 1.20 | 2.00 | - | - |
| **Lättbetong LAC klass 5** | | [kN] | 2.00 | 4.50 | 5.50 | 5.50 |
| **Massiv lertegel klass 20** | | [kN] | 2.00 | 4.50 | 6.00 | 6.00 |
| **Ihåligt silikatblock klass 15** | | [kN] | 1.50 | - | - | - |

# Bas prestandadata

| Storlek | | | M6 | M8 | M10 | M12 |
|---|---|---|---|---|---|---|
| BERÄKNAD LAST | | | | | | |
| DRAGLAST $N_{Rd}$ | | | | | | |
| **Ihålig kärnplatta min. C20 / 25** | | | | | | |
| Väggtjocklek | Materialklass | | | | | |
| 23 | C30/37 | [kN] | 1.10 | 2.50 | - | - |
| | C35/45 | [kN] | 1.10 | 2.50 | - | - |
| | C45/55 | [kN] | 1.10 | 2.50 | - | - |
| | C50/60 | [kN] | 1.10 | 2.50 | - | - |
| 35 | C30/37 | [kN] | 1.10 | 2.50 | 4.20 | - |
| | C35/45 | [kN] | 1.10 | 2.50 | 4.20 | - |
| | C45/55 | [kN] | 1.10 | 2.50 | 4.20 | - |
| | C50/60 | [kN] | 1.10 | 2.50 | 4.20 | - |
| 40 | C30/37 | [kN] | 1.10 | 2.50 | 4.20 | 5.60 |
| | C35/45 | [kN] | 1.10 | 2.50 | 4.20 | 5.60 |
| | C45/55 | [kN] | 1.10 | 2.50 | 4.20 | 5.60 |
| | C50/60 | [kN] | 1.10 | 2.50 | 4.20 | 5.60 |
| 50 | C20/25 | [kN] | 1.10 | 2.50 | 4.20 | 4.70 |
| **Beam-and-block golv (t.ex. Terriva 4.0 / 2), min.** | | [kN] | 0.70 | 1.10 | - | - |
| **Lättbetong LAC klass 5** | | [kN] | 0.80 | 1.80 | 2.20 | 2.20 |
| **Massiv lertegel klass 20** | | [kN] | 0.80 | 1.80 | 2.40 | 2.40 |
| **Ihåligt silikatblock klass 15** | | [kN] | 0.60 | - | - | - |
| TVÄRLAST $V_{Rd}$ | | | | | | |
| **Ihålig kärnplatta min. C20 / 25** | | | | | | |
| Väggtjocklek | Materialklass | | | | | |
| 23 | C30/37 | [kN] | 1.60 | 3.60 | - | - |
| | C35/45 | [kN] | 1.60 | 3.60 | - | - |
| | C45/55 | [kN] | 1.60 | 3.60 | - | - |
| | C50/60 | [kN] | 1.60 | 3.60 | - | - |
| 35 | C30/37 | [kN] | 1.60 | 3.60 | 6.00 | - |
| | C35/45 | [kN] | 1.60 | 3.60 | 6.00 | - |
| | C45/55 | [kN] | 1.60 | 3.60 | 6.00 | - |
| | C50/60 | [kN] | 1.60 | 3.60 | 6.00 | - |
| 40 | C30/37 | [kN] | 1.60 | 3.60 | 6.00 | 8.00 |
| | C35/45 | [kN] | 1.60 | 3.60 | 6.00 | 8.00 |
| | C45/55 | [kN] | 1.60 | 3.60 | 6.00 | 8.00 |
| | C50/60 | [kN] | 1.60 | 3.60 | 6.00 | 8.00 |
| 50 | C20/25 | [kN] | 1.60 | 3.60 | 6.00 | 6.80 |
| **Beam-and-block golv (t.ex. Terriva 4.0 / 2), min.** | | [kN] | 1.00 | 1.60 | - | - |
| **Lättbetong LAC klass 5** | | [kN] | 1.60 | 3.60 | 4.40 | 4.40 |
| **Massiv lertegel klass 20** | | [kN] | 1.60 | 3.60 | 4.80 | 4.80 |
| **Ihåligt silikatblock klass 15** | | [kN] | 1.20 | - | - | - |

## Bas prestandadata

| Storlek | | | M6 | M8 | M10 | M12 |
|---|---|---|---|---|---|---|
| REKOMMENDERAD BELASTNING | | | | | | |
| DRAGLAST $N_{rec}$ | | | | | | |
| **Ihålig kärnplatta min. C20 / 25** | | | | | | |
| Väggtjocklek | Materialklass | | | | | |
| 23 | C30/37 | [kN] | 0.80 | 1.80 | - | - |
| | C35/45 | [kN] | 0.80 | 1.80 | - | - |
| | C45/55 | [kN] | 0.80 | 1.80 | - | - |
| | C50/60 | [kN] | 0.80 | 1.80 | - | - |
| 35 | C30/37 | [kN] | 0.80 | 1.80 | 3.00 | - |
| | C35/45 | [kN] | 0.80 | 1.80 | 3.00 | - |
| | C45/55 | [kN] | 0.80 | 1.80 | 3.00 | - |
| | C50/60 | [kN] | 0.80 | 1.80 | 3.00 | - |
| 40 | C30/37 | [kN] | 0.80 | 1.80 | 3.00 | 4.00 |
| | C35/45 | [kN] | 0.80 | 1.80 | 3.00 | 4.00 |
| | C45/55 | [kN] | 0.80 | 1.80 | 3.00 | 4.00 |
| | C50/60 | [kN] | 0.80 | 1.80 | 3.00 | 4.00 |
| 50 | C20/25 | [kN] | 0.80 | 1.80 | 3.00 | 3.40 |
| **Beam-and-block golv (t.ex. Terriva 4.0 / 2), min.** | | [kN] | 0.50 | 0.80 | - | - |
| **Lättbetong LAC klass 5** | | [kN] | 0.60 | 1.30 | 1.60 | 1.60 |
| **Massiv lertegel klass 20** | | [kN] | 0.60 | 1.30 | 1.70 | 1.70 |
| **Ihåligt silikatblock klass 15** | | [kN] | 0.40 | - | - | - |
| TVÄRLAST $V_{rec}$ | | | | | | |
| **Ihålig kärnplatta min. C20 / 25** | | | | | | |
| Väggtjocklek | Materialklass | | | | | |
| 23 | C30/37 | [kN] | 1.10 | 2.60 | - | - |
| | C35/45 | [kN] | 1.10 | 2.60 | - | - |
| | C45/55 | [kN] | 1.10 | 2.60 | - | - |
| | C50/60 | [kN] | 1.10 | 2.60 | - | - |
| 35 | C30/37 | [kN] | 1.10 | 2.60 | 4.30 | - |
| | C35/45 | [kN] | 1.10 | 2.60 | 4.30 | - |
| | C45/55 | [kN] | 1.10 | 2.60 | 4.30 | - |
| | C50/60 | [kN] | 1.10 | 2.60 | 4.30 | - |
| 40 | C30/37 | [kN] | 1.10 | 2.60 | 4.30 | 5.70 |
| | C35/45 | [kN] | 1.10 | 2.60 | 4.30 | 5.70 |
| | C45/55 | [kN] | 1.10 | 2.60 | 4.30 | 5.70 |
| | C50/60 | [kN] | 1.10 | 2.60 | 4.30 | 5.70 |
| 50 | C20/25 | [kN] | 1.10 | 2.60 | 4.30 | 4.90 |
| **Beam-and-block golv (t.ex. Terriva 4.0 / 2), min.** | | [kN] | 0.70 | 1.10 | - | - |
| **Lättbetong LAC klass 5** | | [kN] | 1.10 | 2.60 | 3.10 | 3.10 |
| **Massiv lertegel klass 20** | | [kN] | 1.10 | 2.60 | 3.40 | 3.40 |
| **Ihåligt silikatblock klass 15** | | [kN] | 0.90 | - | - | - |

## Kommersiell produktdata

| Artikel | Infästning | | Kvantitet (st) | | | Vikt (kg) | | | EAN-kod |
|---|---|---|---|---|---|---|---|---|---|
| | Diameter [mm] | Längd [mm] | Låda | Ytterför-packning | Pall | Låda | Ytterför-packning | Pall | |
| R-RBL-06HW | 6 | 83 | 25 | 400 | 16000 | 0.93 | 14.9 | 625.2 | 5906675283135 |
| R-RBL-08HW | 8 | 98 | 25 | 25 | 4000 | 1.79 | 1.79 | 316.8 | 5906675283159 |
| R-RBL-10HW | 10 | 120 | 25 | 25 | 4000 | 3.1 | 3.1 | 530.8 | 5906675283173 |
| R-RBL-12HW | 12 | 145 | 25 | 25 | 4000 | 5.8 | 5.8 | 962.8 | 5906675283197 |