



Deze constructieschroeven met platverzonden kop zijn sterk en maken voorboren overbodig. Ze bezitten alle technische troeven die u in staat stellen verbindingen van zeer hoge kwaliteit te realiseren. Door hun ontwerp voor houtbouw en kapconstructies worden deze referenties gebruikt voor een ruim assortiment toepassingen in de professionele houtbouw.



[EN-ETA-13/0796](#), [NL-DoP-e13/0796](#)

KENMERKEN



Materiaal

- Geel verzinkt staal 5 µm,
- Gebichromateerde afwerking overeenkomstig NF EN ISO 2081.

Voordelen

- Ribben onder kop : zelffrezend voor minder spaanvorming aan het oppervlak van het hout,
- Dubbele kegel : breuksterkte,
- Ruimer : vermindert de opwarming van de schroef, vergemakkelijkt de indringing in het hout en spaart uw machines en accessoires,
- Grove en gekartelde asymmetrische schroefdraad : geringer inschroefdraaimoment en hoge uittreksterkte voor een betere afvoer van stof,
- Secundaire schroefdraad die splijtwerving tegengaat : geen voorboren nodig. Perfecte aanzet zelfs in harde houtsoorten,
- 1 Torx-schroefbit meegeleverd in elke doos.

TOEPASSINGEN

Ondergrond

- **Drager** : massief hout, compositiehout, gelijmd gelamineerd hout, CLT,
- **Gedragen bouwdeel** : massief hout, compositiehout, gelijmd gelamineerd hout, CLT.

Toepassingsgebieden

- Verbinding van elementen uit massief hout, gelamineerd hout of houtderivaten voor hout skeletten,
- Verbinding van OSB-vloer op I-balken en massief houten dwarsbalken.

TECHNISCHE GEGEVENS

Afmetingen en karakteristieke waarden



| Referentie | Afmetingen en karakteristieke waarden [mm] | | | | | |
|---------------|--|-----|----------------|----|----------------|------|
| | l | lg | d ₁ | d | d _h | Bit |
| ESCRC6.0X200 | 200 | 64 | 4 | 6 | 12 | TX30 |
| ESCRC8.0X80 | 80 | 54 | 5.3 | 8 | 15 | TX40 |
| ESCRC8.0X120 | 120 | 54 | 5.3 | 8 | 15 | TX40 |
| ESCRC8.0X100 | 100 | 54 | 5.3 | 8 | 15 | TX40 |
| ESCRC8.0X140 | 140 | 84 | 5.3 | 8 | 15 | TX40 |
| ESCRC8.0X180 | 180 | 100 | 5.3 | 8 | 15 | TX40 |
| ESCRC8.0X160 | 160 | 84 | 5.3 | 8 | 15 | TX40 |
| ESCRC8.0X200 | 200 | 100 | 5.3 | 8 | 15 | TX40 |
| ESCRC8.0X220 | 220 | 100 | 5.3 | 8 | 15 | TX40 |
| ESCRC8.0X240 | 240 | 100 | 5.3 | 8 | 15 | TX40 |
| ESCRC8.0X260 | 260 | 100 | 5.3 | 8 | 15 | TX40 |
| ESCRC8.0X280 | 280 | 100 | 5.3 | 8 | 15 | TX40 |
| ESCRC8.0X300 | 300 | 100 | 5.3 | 8 | 15 | TX40 |
| ESCRC8.0X320 | 320 | 100 | 5.3 | 8 | 15 | TX40 |
| ESCRC8.0X340 | 340 | 100 | 5.3 | 8 | 15 | TX40 |
| ESCRC8.0X360 | 360 | 100 | 5.3 | 8 | 15 | TX40 |
| ESCRC8.0X400 | 400 | 100 | 5.3 | 8 | 15 | TX40 |
| ESCRC10.0X120 | 120 | 60 | 6.2 | 10 | 18.5 | TX40 |
| ESCRC10.0X140 | 140 | 60 | 6.2 | 10 | 18.5 | TX40 |
| ESCRC10.0X160 | 160 | 100 | 6.2 | 10 | 18.5 | TX40 |
| ESCRC10.0X180 | 180 | 100 | 6.2 | 10 | 18.5 | TX40 |
| ESCRC10.0X200 | 200 | 100 | 6.2 | 10 | 18.5 | TX40 |
| ESCRC10.0X220 | 220 | 100 | 6.2 | 10 | 18.5 | TX40 |
| ESCRC10.0X240 | 240 | 100 | 6.2 | 10 | 18.5 | TX40 |
| ESCRC10.0X280 | 280 | 100 | 6.2 | 10 | 18.5 | TX40 |
| ESCRC10.0X300 | 300 | 100 | 6.2 | 10 | 18.5 | TX40 |
| ESCRC10.0X320 | 320 | 100 | 6.2 | 10 | 18.5 | TX40 |
| ESCRC10.0X340 | 340 | 100 | 6.2 | 10 | 18.5 | TX40 |
| ESCRC10.0X360 | 360 | 100 | 6.2 | 10 | 18.5 | TX40 |
| ESCRC10.0X400 | 400 | 100 | 6.2 | 10 | 18.5 | TX40 |

Karakteristieke producteigenschappen

| Referentie | Karakteristiek vloeimoment: M _{y,k} [Nm] | Karakteristieke uitreksterkte - f _{ax,k,90°} [N/mm ²] | Karakteristieke kopdoortrekwaarde - f _{head,k} [N/mm ²] | Karakteristieke treksterkte- f _{tens,k} [kN] | Karakteristieke torsiesterkte - f _{tor,k} [Nm] |
|--------------|---|--|--|---|---|
| ESCRC6.0X200 | 10.1 | 13 | 14.6 | 12.8 | 10.1 |
| ESCRC8.0X80 | 22.6 | 10.7 | 12.4 | 22.7 | 25.6 |
| ESCRC8.0X120 | 22.6 | 10.7 | 12.4 | 22.7 | 25.6 |
| ESCRC8.0X100 | 22.6 | 10.7 | 12.4 | 22.7 | 25.6 |
| ESCRC8.0X140 | 22.6 | 10.7 | 12.4 | 22.7 | 25.6 |
| ESCRC8.0X180 | 22.6 | 10.7 | 12.4 | 22.7 | 25.6 |
| ESCRC8.0X160 | 22.6 | 10.7 | 12.4 | 22.7 | 25.6 |
| ESCRC8.0X200 | 22.6 | 10.7 | 12.4 | 22.7 | 25.6 |
| ESCRC8.0X220 | 22.6 | 10.7 | 12.4 | 22.7 | 25.6 |

| Referentie | Karakteristiek vloeimoment; $M_{y,k}$ [Nm] | Karakteristieke uittreksterkte - $f_{ax,k,90^\circ}$ [N/mm ²] | Karakteristieke kopdoortrekwaarde - $f_{head,k}$ [N/mm ²] | Karakteristieke treksterkte- $f_{tens,k}$ [kN] | Karakteristieke torsiesterkte - $f_{tor,k}$ [Nm] |
|---------------|--|---|---|--|--|
| ESCRC8.0X240 | 22.6 | 10.7 | 12.4 | 22.7 | 25.6 |
| ESCRC8.0X260 | 22.6 | 10.7 | 12.4 | 22.7 | 25.6 |
| ESCRC8.0X280 | 22.6 | 10.7 | 12.4 | 22.7 | 25.6 |
| ESCRC8.0X300 | 22.6 | 10.7 | 12.4 | 22.7 | 25.6 |
| ESCRC8.0X320 | 22.6 | 10.7 | 12.4 | 22.7 | 25.6 |
| ESCRC8.0X340 | 22.6 | 10.7 | 12.4 | 22.7 | 25.6 |
| ESCRC8.0X360 | 22.6 | 10.7 | 12.4 | 22.7 | 25.6 |
| ESCRC8.0X400 | 22.6 | 10.7 | 12.4 | 22.7 | 25.6 |
| ESCRC10.0X120 | 33 | 9.5 | 12.2 | 33.2 | 47.5 |
| ESCRC10.0X140 | 33 | 9.5 | 12.2 | 33.2 | 47.5 |
| ESCRC10.0X160 | 33 | 9.5 | 12.2 | 33.2 | 47.5 |
| ESCRC10.0X180 | 33 | 9.5 | 12.2 | 33.2 | 47.5 |
| ESCRC10.0X200 | 33 | 9.5 | 12.2 | 33.2 | 47.5 |
| ESCRC10.0X220 | 33 | 9.5 | 12.2 | 33.2 | 47.5 |
| ESCRC10.0X240 | 33 | 9.5 | 12.2 | 33.2 | 47.5 |
| ESCRC10.0X280 | 33 | 9.5 | 12.2 | 33.2 | 47.5 |
| ESCRC10.0X300 | 33 | 9.5 | 12.2 | 33.2 | 47.5 |
| ESCRC10.0X320 | 33 | 9.5 | 12.2 | 33.2 | 47.5 |
| ESCRC10.0X340 | 33 | 9.5 | 12.2 | 33.2 | 47.5 |
| ESCRC10.0X360 | 33 | 9.5 | 12.2 | 33.2 | 47.5 |
| ESCRC10.0X400 | 33 | 9.5 | 12.2 | 33.2 | 47.5 |

Karakteristieke waarden

| Referentie | Karakteristieke waarden - Hout C24 [kN] | | | | | | | |
|---------------|---|-------------------------|---|--|--|---|------------------------------------|-------------------------------------|
| | $R_{ax,k}$ config [1] | $R_{head,k}$ config [2] | Hout op hout ‐ ; - $R_{lat,k}$ | | | | Staal-op-hout ‐ ; $R_{lat,k}$ | |
| | | | $\alpha_1=90^\circ$ and $\alpha_2=0^\circ$ config [3] | $\alpha_1=0^\circ$ and $\alpha_2=0^\circ$ config [4] | $\alpha_1=90^\circ$ and $\alpha_2=90^\circ$ config [5] | $\alpha_1=0^\circ$ and $\alpha_2=90^\circ$ config [6] | $\alpha_2=0^\circ$ config [7] | $\alpha_2=90^\circ$ config [8] [kN] |
| ESCRC6.0X200 | 4.99 | 2.1 | 2.16 | 2.16 | 2.16 | 2.16 | 3.57 | 3.6 |
| ESCRC8.0X80 | 4.62 | 2.79 | a) | a) | a) | a) | 6.18 | 5.3 |
| ESCRC8.0X120 | 4.62 | 2.79 | 3.9 | 4.25 | 3.63 | 3.9 | 6.18 | 5.3 |
| ESCRC8.0X100 | 4.62 | 2.79 | 3.68 | 4.25 | 3.5 | 3.9 | 6.18 | 5.3 |
| ESCRC8.0X140 | 7.19 | 2.79 | 3.9 | 4.25 | 3.63 | 3.9 | 6.82 | 5.9 |
| ESCRC8.0X180 | 8.56 | 2.79 | 3.9 | 4.25 | 3.63 | 3.9 | 7.17 | 6.3 |
| ESCRC8.0X160 | 7.19 | 2.79 | 3.9 | 4.25 | 3.63 | 3.9 | 6.82 | 5.9 |
| ESCRC8.0X200 | 8.56 | 2.79 | 3.9 | 4.25 | 3.63 | 3.9 | 7.17 | 6.3 |
| ESCRC8.0X220 | 8.56 | 2.79 | 3.9 | 4.25 | 3.63 | 3.9 | 7.17 | 6.3 |
| ESCRC8.0X240 | 8.56 | 2.79 | 3.9 | 4.25 | 3.63 | 3.9 | 7.17 | 6.3 |
| ESCRC8.0X260 | 8.56 | 2.79 | 3.9 | 4.25 | 3.63 | 3.9 | 7.17 | 6.3 |
| ESCRC8.0X280 | 8.56 | 2.79 | 3.9 | 4.25 | 3.63 | 3.9 | 7.17 | 6.3 |
| ESCRC8.0X300 | 8.56 | 2.79 | 3.9 | 4.25 | 3.63 | 3.9 | 7.17 | 6.3 |
| ESCRC8.0X320 | 8.56 | 2.79 | 3.9 | 4.25 | 3.63 | 3.9 | 7.17 | 6.3 |
| ESCRC8.0X340 | 8.56 | 2.79 | 3.9 | 4.25 | 3.63 | 3.9 | 7.17 | 6.3 |
| ESCRC8.0X360 | 8.56 | 2.79 | 3.9 | 4.25 | 3.63 | 3.9 | 7.17 | 6.3 |
| ESCRC8.0X400 | 8.56 | 2.79 | 3.9 | 4.25 | 3.63 | 3.9 | 7.17 | 6.3 |
| ESCRC10.0X120 | 5.7 | 4.18 | 5.29 | 5.79 | 4.92 | 5.29 | 8.14 | 6.9 |
| ESCRC10.0X140 | 5.7 | 4.18 | 5.29 | 5.79 | 4.92 | 5.29 | 8.14 | 6.9 |
| ESCRC10.0X160 | 9.5 | 4.18 | 5.29 | 5.79 | 4.92 | 5.29 | 9.09 | 7.9 |
| ESCRC10.0X180 | 9.5 | 4.18 | 5.29 | 5.79 | 4.92 | 5.29 | 9.09 | 7.9 |
| ESCRC10.0X200 | 9.5 | 4.18 | 5.29 | 5.79 | 4.92 | 5.29 | 9.09 | 7.9 |
| ESCRC10.0X220 | 9.5 | 4.18 | 5.29 | 5.79 | 4.92 | 5.29 | 9.09 | 7.9 |
| ESCRC10.0X240 | 9.5 | 4.18 | 5.29 | 5.79 | 4.92 | 5.29 | 9.09 | 7.9 |
| ESCRC10.0X280 | 9.5 | 4.18 | 5.29 | 5.79 | 4.92 | 5.29 | 9.09 | 7.9 |
| ESCRC10.0X300 | 9.5 | 4.18 | 5.29 | 5.79 | 4.92 | 5.29 | 9.09 | 7.9 |
| ESCRC10.0X320 | 9.5 | 4.18 | 5.29 | 5.79 | 4.92 | 5.29 | 9.09 | 7.9 |
| ESCRC10.0X340 | 9.5 | 4.18 | 5.29 | 5.79 | 4.92 | 5.29 | 9.09 | 7.9 |

| Referentie | Karakteristieke waarden - Hout C24 [kN] | | | | | | | |
|---------------|---|--------------------------------|---|--|--|---|---|--|
| | R _{ax,k} config [1] | R _{head,k} config [2] | Hout op hout &ndash ; - R _{lat,k} | | | | Staal-op-hout &ndash ; R _{lat,k} | |
| | | | $\alpha_1=90^\circ$ and $\alpha_2=0^\circ$ config [3] | $\alpha_1=0^\circ$ and $\alpha_2=0^\circ$ config [4] | $\alpha_1=90^\circ$ and $\alpha_2=90^\circ$ config [5] | $\alpha_1=0^\circ$ and $\alpha_2=90^\circ$ config [6] | $\alpha_2=0^\circ$ config [7] | $\alpha_2=90^\circ$ config [8] [kN] |
| ESCRC10.0X360 | 9.5 | 4.18 | 5.29 | 5.79 | 4.92 | 5.29 | 9.09 | 7.9 |
| ESCRC10.0X400 | 9.5 | 4.18 | 5.29 | 5.79 | 4.92 | 5.29 | 9.09 | 7.9 |

a) over deze afmetingen zijn er geen afschuifkrachten voor hout-op-houtverbindingen omdat de noodzakelijke dikte van het volgens ETA-13/0796 bijlage 7 tabel A6.9 te monteren houtdeel niet wordt bereikt. Voor staal-op-houtverbindingen is er geen voorgeschreven minimumdikte van het te monteren deel.

- De waarden van de uittrekkkrachten van de schroefdraad zijn berekend met een hoek van 45° tot 90° ten opzichte van de richting van de houtvezels.
- De geometrie en de mechanische eigenschappen komen overeen met ETA-13/0796.
- De vermelde waarden hebben betrekking op het hout van een schijnbaar volumieke massa $\rho = 350 \text{ kg/m}^3$.
- De gekozen dikte van het te monteren houtdeel is precies gelijk aan de lengte van de stang.
- Alle waarden zijn berekend met een totaal verzonken schroefdraadlengte.
- Voor staal-op-houtverbindingen is een stalen plaat met een dikte $t = d$ als berekeningsbasis genomen.
- Zet- en drukfouten voorbehouden.
- De opgegeven waarden zijn bedoeld om de planning te vergemakkelijken. De projecten moeten uitsluitend door zorgvuldig erkende professionals worden uitgevoerd.

ABACUS

Karakteristieke waarden - Hout/Hout

| Referentie | Karakteristieke waarden - Hout/Hout C24 | | | | | | | | | | | | | | | |
|-----------------|---|-----------------|--|---------|---------|---------|---------|---------|-----------------|---|---------|---------|---------|---------|---------|-----------------|
| | Axiaal | | Afschuiving evenwijdig aan de vezelrichting in functie van t_1 [Rv.0.k] [kN] | | | | | | | Afschuiving haaks op de vezelrichting in functie van t_1 [Rv.90.k] [kN] | | | | | | |
| | t_1 [mm] | $R_{ax,k}$ [kN] | 35 [mm] | 40 [mm] | 45 [mm] | 60 [mm] | 75 [mm] | 80 [mm] | ≥ 100 [mm] | 35 [mm] | 40 [mm] | 45 [mm] | 60 [mm] | 75 [mm] | 80 [mm] | ≥ 100 [mm] |
| ESCRC6.0X136 | 136 | 2.1 | 2.28 | 2.31 | 2.31 | 2.31 | 2.31 | 2.31 | 2.31 | 2.28 | 2.31 | 2.31 | 2.31 | 2.31 | 2.31 | 2.31 |
| ESCRC8.0X8026 | 8026 | 2.79 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| ESCRC8.0X66 | 66 | 2.79 | 3.92 | 4.22 | 4.25 | 4.25 | - | - | - | 3.08 | 3.26 | 3.46 | 3.63 | - | - | - |
| ESCRC8.0X10046 | 10046 | 2.79 | 3.92 | 4.22 | 4.25 | - | - | - | - | 3.08 | 3.26 | 3.46 | - | - | - | - |
| ESCRC8.0X56 | 56 | 2.79 | 3.92 | 4.22 | 4.25 | 4.25 | - | - | - | 3.08 | 3.26 | 3.46 | 3.63 | - | - | - |
| ESCRC8.0X18080 | 18080 | 2.79 | 3.92 | 4.22 | 4.25 | 4.25 | 4.25 | 4.25 | - | 3.08 | 3.26 | 3.46 | 3.63 | 3.63 | 3.63 | - |
| ESCRC8.0X76 | 76 | 2.79 | 3.92 | 4.22 | 4.25 | 4.25 | 4.25 | 4.25 | - | 3.08 | 3.26 | 3.46 | 3.63 | 3.63 | 3.63 | - |
| ESCRC8.0X20000 | 20000 | 2.79 | 3.92 | 4.22 | 4.25 | 4.25 | 4.25 | 4.25 | 4.25 | 3.08 | 3.26 | 3.46 | 3.63 | 3.63 | 3.63 | 3.63 |
| ESCRC8.0X120 | 120 | 2.79 | 3.92 | 4.22 | 4.25 | 4.25 | 4.25 | 4.25 | 4.25 | 3.08 | 3.26 | 3.46 | 3.63 | 3.63 | 3.63 | 3.63 |
| ESCRC8.0X24040 | 24040 | 2.79 | 3.92 | 4.22 | 4.25 | 4.25 | 4.25 | 4.25 | 4.25 | 3.08 | 3.26 | 3.46 | 3.63 | 3.63 | 3.63 | 3.63 |
| ESCRC8.0X160 | 160 | 2.79 | 3.92 | 4.22 | 4.25 | 4.25 | 4.25 | 4.25 | 4.25 | 3.08 | 3.26 | 3.46 | 3.63 | 3.63 | 3.63 | 3.63 |
| ESCRC8.0X28080 | 28080 | 2.79 | 3.92 | 4.22 | 4.25 | 4.25 | 4.25 | 4.25 | 4.25 | 3.08 | 3.26 | 3.46 | 3.63 | 3.63 | 3.63 | 3.63 |
| ESCRC8.0X200 | 200 | 2.79 | 3.92 | 4.22 | 4.25 | 4.25 | 4.25 | 4.25 | 4.25 | 3.08 | 3.26 | 3.46 | 3.63 | 3.63 | 3.63 | 3.63 |
| ESCRC8.0X32020 | 32020 | 2.79 | 3.92 | 4.22 | 4.25 | 4.25 | 4.25 | 4.25 | 4.25 | 3.08 | 3.26 | 3.46 | 3.63 | 3.63 | 3.63 | 3.63 |
| ESCRC8.0X240 | 240 | 2.79 | 3.92 | 4.22 | 4.25 | 4.25 | 4.25 | 4.25 | 4.25 | 3.08 | 3.26 | 3.46 | 3.63 | 3.63 | 3.63 | 3.63 |
| ESCRC8.0X36060 | 36060 | 2.79 | 3.92 | 4.22 | 4.25 | 4.25 | 4.25 | 4.25 | 4.25 | 3.08 | 3.26 | 3.46 | 3.63 | 3.63 | 3.63 | 3.63 |
| ESCRC8.0X300 | 300 | 2.79 | 3.92 | 4.22 | 4.25 | 4.25 | 4.25 | 4.25 | 4.25 | 3.08 | 3.26 | 3.46 | 3.63 | 3.63 | 3.63 | 3.63 |
| ESCRC10.0X1200 | 1200 | 4.18 | - | 5.48 | 5.79 | 5.79 | - | - | - | - | 4.25 | 4.48 | 4.92 | - | - | - |
| ESCRC10.0X80 | 80 | 4.18 | - | 5.48 | 5.79 | 5.79 | 5.79 | 5.79 | - | - | 4.25 | 4.48 | 4.92 | 4.92 | 4.92 | - |
| ESCRC10.0X1600 | 1600 | 4.18 | - | 5.48 | 5.79 | 5.79 | 5.79 | 5.79 | - | - | 4.25 | 4.48 | 4.92 | 4.92 | 4.92 | - |
| ESCRC10.0X80 | 80 | 4.18 | - | 5.48 | 5.79 | 5.79 | 5.79 | 5.79 | - | - | 4.25 | 4.48 | 4.92 | 4.92 | 4.92 | - |
| ESCRC10.0X20000 | 20000 | 4.18 | - | 5.48 | 5.79 | 5.79 | 5.79 | 5.79 | 5.79 | - | 4.25 | 4.48 | 4.92 | 4.92 | 4.92 | 4.92 |
| ESCRC10.0X120 | 120 | 4.18 | - | 5.48 | 5.79 | 5.79 | 5.79 | 5.79 | 5.79 | - | 4.25 | 4.48 | 4.92 | 4.92 | 4.92 | 4.92 |
| ESCRC10.0X24040 | 24040 | 4.18 | - | 5.48 | 5.79 | 5.79 | 5.79 | 5.79 | 5.79 | - | 4.25 | 4.48 | 4.92 | 4.92 | 4.92 | 4.92 |
| ESCRC10.0X180 | 180 | 4.18 | - | 5.48 | 5.79 | 5.79 | 5.79 | 5.79 | 5.79 | - | 4.25 | 4.48 | 4.92 | 4.92 | 4.92 | 4.92 |
| ESCRC10.0X30000 | 30000 | 4.18 | - | 5.48 | 5.79 | 5.79 | 5.79 | 5.79 | 5.79 | - | 4.25 | 4.48 | 4.92 | 4.92 | 4.92 | 4.92 |
| ESCRC10.0X220 | 220 | 4.18 | - | 5.48 | 5.79 | 5.79 | 5.79 | 5.79 | 5.79 | - | 4.25 | 4.48 | 4.92 | 4.92 | 4.92 | 4.92 |
| ESCRC10.0X34040 | 34040 | 4.18 | - | 5.48 | 5.79 | 5.79 | 5.79 | 5.79 | 5.79 | - | 4.25 | 4.48 | 4.92 | 4.92 | 4.92 | 4.92 |
| ESCRC10.0X260 | 260 | 4.18 | - | 5.48 | 5.79 | 5.79 | 5.79 | 5.79 | 5.79 | - | 4.25 | 4.48 | 4.92 | 4.92 | 4.92 | 4.92 |
| ESCRC10.0X40000 | 40000 | 4.18 | - | 5.48 | 5.79 | 5.79 | 5.79 | 5.79 | 5.79 | - | 4.25 | 4.48 | 4.92 | 4.92 | 4.92 | 4.92 |

Die sterkewaarden gelden voor:

- Een houtdeel onder kop met dikte kleiner of gelijk aan de waarde t_1 vermeld in de kolom ernaast.
- Een schroef waarvan de hartlijn onder een hoek van 45 tot 90° op de vezelrichting staat in de gevallen van ESCR(XXX), en haaks op de vezelrichting voor de andere schroeven.

Bij klemschroeven (deeldraadse schacht) komt de afmeting t_1 overeen met de maximale dikte waarbij de schroefdraad volledig in het hout aan de puntzijde zit wat voor een optimale aanspanning bij de plaatsing zorgt.

De afschuifsterkten zijn gegeven voor verscheidene dikten van houtdelen onder kop t_1 en voor de volgende configuraties:

- Hartlijn van de belasting evenwijdig aan de vezelrichting van de twee houtdelen $R_{v,0^\circ.k}$
- Hartlijn van de belasting haaks op de vezelrichting van de twee houtdelen $R_{v,90^\circ.k}$

Die sterkewaarden gelden voor hout van mechanische klasse C24 of hoger.

De hypothese van voorboring voor het berekenen van de belasting en de minimumafstanden is gevalideerd.

Voor schroeven met deeldraadse schacht zijn de sterkewaarden alleen aangegeven voor configuraties waarbij de schroefdraad niet meer dan 5 mm diep in het houten element onder kop zit om een optimale vastklemming te waarborgen.

Met de clause (2) van deel 8.3.1.2 van EN1995-1-1:2004+A2:2014 over de indringingsdiepte wordt bij deze berekening geen rekening gehouden.

Karakteristieke waarden - Staal/Hout

| Referentie | Karakteristieke waarden - Staal/Hout C24 | | | | |
|---------------|--|-------------------------|----------------------|-------------------------|----------------------|
| | Axiaal [$R_{ax.st.k}$] [kN] | Afschuiving dunne plaat | | Afschuiving dikke plaat | |
| | | $R_{v,0.st.k}$ [kN] | $R_{v,90.st.k}$ [kN] | $R_{v,0.st.k}$ [kN] | $R_{v,90.st.k}$ [kN] |
| ESCRC6.0X200 | 4.99 | 3.03 | 3.03 | 3.77 | 3.77 |
| ESCRC8.0X80 | 4.62 | 4.71 | 4.09 | 6.18 | 5.3 |
| ESCRC8.0X120 | 4.62 | 4.71 | 4.09 | 6.18 | 5.3 |
| ESCRC8.0X100 | 4.62 | 4.71 | 4.09 | 6.18 | 5.3 |
| ESCRC8.0X140 | 7.19 | 5.35 | 4.73 | 6.82 | 5.94 |
| ESCRC8.0X180 | 8.56 | 5.69 | 5.07 | 7.17 | 6.28 |
| ESCRC8.0X160 | 7.19 | 5.35 | 4.73 | 6.82 | 5.94 |
| ESCRC8.0X200 | 8.56 | 5.69 | 5.07 | 7.17 | 6.28 |
| ESCRC8.0X220 | 8.56 | 5.69 | 5.07 | 7.17 | 6.28 |
| ESCRC8.0X240 | 8.56 | 5.69 | 5.07 | 7.17 | 6.28 |
| ESCRC8.0X260 | 8.56 | 5.69 | 5.07 | 7.17 | 6.28 |
| ESCRC8.0X280 | 8.56 | 5.69 | 5.07 | 7.17 | 6.28 |
| ESCRC8.0X300 | 8.56 | 5.69 | 5.07 | 7.17 | 6.28 |
| ESCRC8.0X320 | 8.56 | 5.69 | 5.07 | 7.17 | 6.28 |
| ESCRC8.0X340 | 8.56 | 5.69 | 5.07 | 7.17 | 6.28 |
| ESCRC8.0X360 | 8.56 | 5.69 | 5.07 | 7.17 | 6.28 |
| ESCRC8.0X400 | 8.56 | 5.69 | 5.07 | 7.17 | 6.28 |
| ESCRC10.0X120 | 5.7 | 6.17 | 5.3 | 8.14 | 6.91 |
| ESCRC10.0X140 | 5.7 | 6.17 | 5.3 | 8.14 | 6.91 |
| ESCRC10.0X160 | 9.5 | 7.12 | 6.25 | 9.09 | 7.86 |
| ESCRC10.0X180 | 9.5 | 7.12 | 6.25 | 9.09 | 7.86 |
| ESCRC10.0X200 | 9.5 | 7.12 | 6.25 | 9.09 | 7.86 |
| ESCRC10.0X220 | 9.5 | 7.12 | 6.25 | 9.09 | 7.86 |
| ESCRC10.0X240 | 9.5 | 7.12 | 6.25 | 9.09 | 7.86 |
| ESCRC10.0X280 | 9.5 | 7.12 | 6.25 | 9.09 | 7.86 |
| ESCRC10.0X300 | 9.5 | 7.12 | 6.25 | 9.09 | 7.86 |
| ESCRC10.0X320 | 9.5 | 7.12 | 6.25 | 9.09 | 7.86 |
| ESCRC10.0X340 | 9.5 | 7.12 | 6.25 | 9.09 | 7.86 |
| ESCRC10.0X360 | 9.5 | 7.12 | 6.25 | 9.09 | 7.86 |
| ESCRC10.0X400 | 9.5 | 7.12 | 6.25 | 9.09 | 7.86 |

Afschuifcapaciteiten worden gegeven voor dikke ($t_{st} = d$) en dunne ($t_{st} = 0,5xd$) stalen platen onder de volgende configuraties:

- Laad as op 0° van houtnerf $R_{v,0°.k}$
- Laad as op 90° van houtnerf $R_{v,90°.k}$

Deze capaciteiten zijn geldig voor C24-houtsoorten of hoger.

Voor tussenliggende staaldiktes moeten de capaciteiten worden berekend door lineaire interpolatie tussen de beperkende dunne en dikke plaatwaarden.

De voorgeboorde hypothese voor de berekening van capaciteit en afstanden is vervuld.

Karakteristieke waarden - Muurlijst/Stijl

| Referentie | Karakteristieke waarden - Muurlijst/Stijl C24 | | | | | | | | | |
|--------------|---|---|--|---------|---------|---------|---------|---------|---------|-----------|
| | Minimumdikte van de stijl [mm] | Minimumafstand van de onderrand van de muurlijst $a_{4,c}$ [mm] | Afschuifsterkte in functie van de dikte van de muurlijst t_1 [$R_{v,90-0.k}$] [kN] | | | | | | | |
| | | | 35 [mm] | 40 [mm] | 45 [mm] | 60 [mm] | 75 [mm] | 80 [mm] | 90 [mm] | ≥100 [mm] |
| ESCRC6.0X200 | 36 | 18 | 2.31 | 2.31 | 2.31 | 2.31 | 2.31 | 2.31 | 2.31 | 2.31 |
| ESCRC8.0X80 | - | - | - | - | - | - | - | - | - | - |
| ESCRC8.0X120 | 48 | 24 | 3.9 | 3.9 | 3.9 | 3.9 | - | - | - | - |
| ESCRC8.0X100 | 48 | 24 | 3.9 | 3.9 | 3.9 | - | - | - | - | - |
| ESCRC8.0X140 | 48 | 24 | 3.9 | 3.9 | 3.9 | 3.9 | - | - | - | - |

Karakteristieke waarden - Muurlijst/Stijl C24

| Referentie | Minimumdikte van de stijl [mm] | Minimumafstand van de onderrand van de muurlijst $a_{4,c}$ [mm] | Afschuifsterkte in functie van de dikte van de muurlijst t_1 [Rv.90-0.k] [kN] | | | | | | | |
|---------------|--------------------------------|---|---|---------|---------|---------|---------|---------|---------|-----------|
| | | | 35 [mm] | 40 [mm] | 45 [mm] | 60 [mm] | 75 [mm] | 80 [mm] | 90 [mm] | ≥100 [mm] |
| | | | ESCRC8.0X180 | 48 | 24 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 |
| ESCRC8.0X160 | 48 | 24 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | - | - |
| ESCRC8.0X200 | 48 | 24 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 |
| ESCRC8.0X220 | 48 | 24 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 |
| ESCRC8.0X240 | 48 | 24 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 |
| ESCRC8.0X260 | 48 | 24 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 |
| ESCRC8.0X280 | 48 | 24 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 |
| ESCRC8.0X300 | 48 | 24 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 |
| ESCRC8.0X320 | 48 | 24 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 |
| ESCRC8.0X340 | 48 | 24 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 |
| ESCRC8.0X360 | 48 | 24 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 |
| ESCRC8.0X400 | 48 | 24 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 |
| ESCRC10.0X120 | 60 | 30 | - | 5.29 | 5.29 | 5.29 | - | - | - | - |
| ESCRC10.0X140 | 60 | 30 | - | 5.29 | 5.29 | 5.29 | 5.29 | 5.29 | - | - |
| ESCRC10.0X160 | 60 | 30 | - | 5.29 | 5.29 | 5.29 | 5.29 | 5.29 | - | - |
| ESCRC10.0X180 | 60 | 30 | - | 5.29 | 5.29 | 5.29 | 5.29 | 5.29 | - | - |
| ESCRC10.0X200 | 60 | 30 | - | 5.29 | 5.29 | 5.29 | 5.29 | 5.29 | 5.29 | 5.29 |
| ESCRC10.0X220 | 60 | 30 | - | 5.29 | 5.29 | 5.29 | 5.29 | 5.29 | 5.29 | 5.29 |
| ESCRC10.0X240 | 60 | 30 | - | 5.29 | 5.29 | 5.29 | 5.29 | 5.29 | 5.29 | 5.29 |
| ESCRC10.0X260 | 60 | 30 | - | 5.29 | 5.29 | 5.29 | 5.29 | 5.29 | 5.29 | 5.29 |
| ESCRC10.0X300 | 60 | 30 | - | 5.29 | 5.29 | 5.29 | 5.29 | 5.29 | 5.29 | 5.29 |
| ESCRC10.0X320 | 60 | 30 | - | 5.29 | 5.29 | 5.29 | 5.29 | 5.29 | 5.29 | 5.29 |
| ESCRC10.0X340 | 60 | 30 | - | 5.29 | 5.29 | 5.29 | 5.29 | 5.29 | 5.29 | 5.29 |
| ESCRC10.0X360 | 60 | 30 | - | 5.29 | 5.29 | 5.29 | 5.29 | 5.29 | 5.29 | 5.29 |
| ESCRC10.0X400 | 60 | 30 | - | 5.29 | 5.29 | 5.29 | 5.29 | 5.29 | 5.29 | 5.29 |

De voorgescreven hypothese voor de berekening van capaciteit en afstanden is vervuld.

Karakteristieke waarden - Paneel/Hout

Paneel (OSB, spaanplaat $\rho_k \geq 380 \text{ kg/m}^3$) / hout C24 in functie van de dikte van het paneel t_p

| Referentie | 13 [mm] | | | | | | | | | | | | | | | 15 [mm] | | | 18 [mm] | | | 22 [mm] | | | 25 [mm] | | |
|---------------|--------------------|---------------------|----------------------|--------------------|---------------------|----------------------|--------------------|---------------------|----------------------|--------------------|---------------------|----------------------|--------------------|---------------------|----------------------|---------|--|--|---------|--|--|---------|--|--|---------|--|--|
| | $R_{ax,k.13}$ [kN] | $R_{v,0,k.13}$ [kN] | $R_{v,90,k.13}$ [kN] | $R_{ax,k.15}$ [kN] | $R_{v,0,k.15}$ [kN] | $R_{v,90,k.15}$ [kN] | $R_{ax,k.18}$ [kN] | $R_{v,0,k.18}$ [kN] | $R_{v,90,k.18}$ [kN] | $R_{ax,k.22}$ [kN] | $R_{v,0,k.22}$ [kN] | $R_{v,90,k.22}$ [kN] | $R_{ax,k.25}$ [kN] | $R_{v,0,k.25}$ [kN] | $R_{v,90,k.25}$ [kN] | | | | | | | | | | | | |
| ESCRC6.0X120 | 1.44 | 1.57 | 1.57 | 1.44 | 1.61 | 1.61 | 1.44 | 1.69 | 1.69 | 1.44 | 1.81 | 1.81 | 1.44 | 1.92 | 1.92 | | | | | | | | | | | | |
| ESCRC8.0X180 | 2.25 | 2.49 | 2.49 | 2.25 | 2.86 | 2.65 | 2.25 | 2.96 | 2.75 | 2.25 | 3.14 | 2.93 | 2.25 | 3.31 | 3.09 | | | | | | | | | | | | |
| ESCRC8.0X160 | 2.25 | 2.49 | 2.49 | 2.25 | 2.86 | 2.65 | 2.25 | 2.96 | 2.75 | 2.25 | 3.14 | 2.93 | 2.25 | 3.31 | 3.09 | | | | | | | | | | | | |
| ESCRC8.0X100 | 2.25 | 2.49 | 2.49 | 2.25 | 2.86 | 2.65 | 2.25 | 2.96 | 2.75 | 2.25 | 3.14 | 2.93 | 2.25 | 3.31 | 3.09 | | | | | | | | | | | | |
| ESCRC8.0X120 | 2.25 | 2.49 | 2.49 | 2.25 | 2.86 | 2.65 | 2.25 | 2.96 | 2.75 | 2.25 | 3.14 | 2.93 | 2.25 | 3.31 | 3.09 | | | | | | | | | | | | |
| ESCRC8.0X180 | 2.25 | 2.49 | 2.49 | 2.25 | 2.86 | 2.65 | 2.25 | 2.96 | 2.75 | 2.25 | 3.14 | 2.93 | 2.25 | 3.31 | 3.09 | | | | | | | | | | | | |
| ESCRC8.0X200 | 2.25 | 2.49 | 2.49 | 2.25 | 2.86 | 2.65 | 2.25 | 2.96 | 2.75 | 2.25 | 3.14 | 2.93 | 2.25 | 3.31 | 3.09 | | | | | | | | | | | | |
| ESCRC8.0X220 | 2.25 | 2.49 | 2.49 | 2.25 | 2.86 | 2.65 | 2.25 | 2.96 | 2.75 | 2.25 | 3.14 | 2.93 | 2.25 | 3.31 | 3.09 | | | | | | | | | | | | |
| ESCRC8.0X240 | 2.25 | 2.49 | 2.49 | 2.25 | 2.86 | 2.65 | 2.25 | 2.96 | 2.75 | 2.25 | 3.14 | 2.93 | 2.25 | 3.31 | 3.09 | | | | | | | | | | | | |
| ESCRC8.0X260 | 2.25 | 2.49 | 2.49 | 2.25 | 2.86 | 2.65 | 2.25 | 2.96 | 2.75 | 2.25 | 3.14 | 2.93 | 2.25 | 3.31 | 3.09 | | | | | | | | | | | | |
| ESCRC8.0X280 | 2.25 | 2.49 | 2.49 | 2.25 | 2.86 | 2.65 | 2.25 | 2.96 | 2.75 | 2.25 | 3.14 | 2.93 | 2.25 | 3.31 | 3.09 | | | | | | | | | | | | |
| ESCRC8.0X300 | 2.25 | 2.49 | 2.49 | 2.25 | 2.86 | 2.65 | 2.25 | 2.96 | 2.75 | 2.25 | 3.14 | 2.93 | 2.25 | 3.31 | 3.09 | | | | | | | | | | | | |
| ESCRC8.0X320 | 2.25 | 2.49 | 2.49 | 2.25 | 2.86 | 2.65 | 2.25 | 2.96 | 2.75 | 2.25 | 3.14 | 2.93 | 2.25 | 3.31 | 3.09 | | | | | | | | | | | | |
| ESCRC8.0X340 | 2.25 | 2.49 | 2.49 | 2.25 | 2.86 | 2.65 | 2.25 | 2.96 | 2.75 | 2.25 | 3.14 | 2.93 | 2.25 | 3.31 | 3.09 | | | | | | | | | | | | |
| ESCRC8.0X360 | 2.25 | 2.49 | 2.49 | 2.25 | 2.86 | 2.65 | 2.25 | 2.96 | 2.75 | 2.25 | 3.14 | 2.93 | 2.25 | 3.31 | 3.09 | | | | | | | | | | | | |
| ESCRC8.0X400 | 2.25 | 2.49 | 2.49 | 2.25 | 2.86 | 2.65 | 2.25 | 2.96 | 2.75 | 2.25 | 3.14 | 2.93 | 2.25 | 3.31 | 3.09 | | | | | | | | | | | | |
| ESCRC10.0X120 | 4.42 | 2.73 | 2.73 | 3.42 | 3.24 | 3.24 | 3.42 | 3.88 | 3.61 | 3.42 | 4.05 | 3.77 | 3.42 | 4.21 | 3.93 | | | | | | | | | | | | |

Paneel (OSB, spaanplaat $\rho_k \geq 380 \text{ kg/m}^3$) / hout C24 in functie van de dikte van het paneel t_p

| Referentie | 13 [mm] | | | 15 [mm] | | | 18 [mm] | | | 22 [mm] | | | 25 [mm] | | |
|---------------|--------------------|---------------------|----------------------|--------------------|---------------------|----------------------|--------------------|---------------------|----------------------|--------------------|---------------------|----------------------|--------------------|---------------------|----------------------|
| | $R_{ax,k.13}$ [kN] | $R_{v,0,k.13}$ [kN] | $R_{v,90,k.13}$ [kN] | $R_{ax,k.15}$ [kN] | $R_{v,0,k.15}$ [kN] | $R_{v,90,k.15}$ [kN] | $R_{ax,k.18}$ [kN] | $R_{v,0,k.18}$ [kN] | $R_{v,90,k.18}$ [kN] | $R_{ax,k.22}$ [kN] | $R_{v,0,k.22}$ [kN] | $R_{v,90,k.22}$ [kN] | $R_{ax,k.25}$ [kN] | $R_{v,0,k.25}$ [kN] | $R_{v,90,k.25}$ [kN] |
| ESCRC10.0X | 3.42 | 2.73 | 2.73 | 3.42 | 3.24 | 3.24 | 3.42 | 3.88 | 3.61 | 3.42 | 4.05 | 3.77 | 3.42 | 4.21 | 3.93 |
| ESCRC10.0X160 | 3.42 | 2.73 | 2.73 | 3.42 | 3.24 | 3.24 | 3.42 | 3.88 | 3.61 | 3.42 | 4.05 | 3.77 | 3.42 | 4.21 | 3.93 |
| ESCRC10.0X200 | 3.42 | 2.73 | 2.73 | 3.42 | 3.24 | 3.24 | 3.42 | 3.88 | 3.61 | 3.42 | 4.05 | 3.77 | 3.42 | 4.21 | 3.93 |
| ESCRC10.0X240 | 3.42 | 2.73 | 2.73 | 3.42 | 3.24 | 3.24 | 3.42 | 3.88 | 3.61 | 3.42 | 4.05 | 3.77 | 3.42 | 4.21 | 3.93 |
| ESCRC10.0X300 | 3.42 | 2.73 | 2.73 | 3.42 | 3.24 | 3.24 | 3.42 | 3.88 | 3.61 | 3.42 | 4.05 | 3.77 | 3.42 | 4.21 | 3.93 |
| ESCRC10.0X340 | 3.42 | 2.73 | 2.73 | 3.42 | 3.24 | 3.24 | 3.42 | 3.88 | 3.61 | 3.42 | 4.05 | 3.77 | 3.42 | 4.21 | 3.93 |
| ESCRC10.0X400 | 3.42 | 2.73 | 2.73 | 3.42 | 3.24 | 3.24 | 3.42 | 3.88 | 3.61 | 3.42 | 4.05 | 3.77 | 3.42 | 4.21 | 3.93 |

Karakteristieke waarden - Fineerhout/Hout

Fineerhout ($\rho_k \geq 490 \text{ kg/m}^3$) / hout C24 in functie van de dikte van het paneel t_p

| Referentie | 10 [mm] | | 15 [mm] | | | 18 [mm] | | | 22 [mm] | | | 25 [mm] | | | 30 [mm] | | | |
|---------------|--------------------|---------------------|----------------------|--------------------|---------------------|----------------------|--------------------|---------------------|----------------------|--------------------|---------------------|----------------------|--------------------|---------------------|----------------------|--------------------|---------------------|----------------------|
| | $R_{ax,k.10}$ [kN] | $R_{v,0,k.10}$ [kN] | $R_{v,90,k.10}$ [kN] | $R_{ax,k.15}$ [kN] | $R_{v,0,k.15}$ [kN] | $R_{v,90,k.15}$ [kN] | $R_{ax,k.18}$ [kN] | $R_{v,0,k.18}$ [kN] | $R_{v,90,k.18}$ [kN] | $R_{ax,k.22}$ [kN] | $R_{v,0,k.22}$ [kN] | $R_{v,90,k.22}$ [kN] | $R_{ax,k.25}$ [kN] | $R_{v,0,k.25}$ [kN] | $R_{v,90,k.25}$ [kN] | $R_{ax,k.30}$ [kN] | $R_{v,0,k.30}$ [kN] | $R_{v,90,k.30}$ [kN] |
| ESCRC6.0X | 1.76 | 1.51 | 1.51 | 1.76 | 1.76 | 1.76 | 1.76 | 1.84 | 1.84 | 1.76 | 1.97 | 1.97 | 1.76 | 2.08 | 2.08 | 1.76 | 2.27 | 2.27 |
| ESCRC8.0X80 | 2.76 | 3.38 | 3.07 | 2.76 | 3.65 | 3.33 | 2.76 | 3.87 | 3.54 | 2.76 | 4.21 | 3.86 | 2.76 | 4.49 | 4.12 | 2.76 | 4.75 | 4.09 |
| ESCRC8.0X100 | 2.76 | 3.38 | 3.07 | 2.76 | 3.65 | 3.33 | 2.76 | 3.87 | 3.54 | 2.76 | 4.21 | 3.86 | 2.76 | 4.49 | 4.12 | 2.76 | 4.75 | 4.24 |
| ESCRC8.0X120 | 2.76 | 3.38 | 3.07 | 2.76 | 3.65 | 3.33 | 2.76 | 3.87 | 3.54 | 2.76 | 4.21 | 3.86 | 2.76 | 4.49 | 4.12 | 2.76 | 4.75 | 4.24 |
| ESCRC8.0X140 | 2.76 | 3.38 | 3.07 | 2.76 | 3.65 | 3.33 | 2.76 | 3.87 | 3.54 | 2.76 | 4.21 | 3.86 | 2.76 | 4.49 | 4.12 | 2.76 | 4.75 | 4.24 |
| ESCRC8.0X160 | 2.76 | 3.38 | 3.07 | 2.76 | 3.65 | 3.33 | 2.76 | 3.87 | 3.54 | 2.76 | 4.21 | 3.86 | 2.76 | 4.49 | 4.12 | 2.76 | 4.75 | 4.24 |
| ESCRC8.0X180 | 2.76 | 3.38 | 3.07 | 2.76 | 3.65 | 3.33 | 2.76 | 3.87 | 3.54 | 2.76 | 4.21 | 3.86 | 2.76 | 4.49 | 4.12 | 2.76 | 4.75 | 4.24 |
| ESCRC8.0X200 | 2.76 | 3.38 | 3.07 | 2.76 | 3.65 | 3.33 | 2.76 | 3.87 | 3.54 | 2.76 | 4.21 | 3.86 | 2.76 | 4.49 | 4.12 | 2.76 | 4.75 | 4.24 |
| ESCRC8.0X240 | 2.76 | 3.38 | 3.07 | 2.76 | 3.65 | 3.33 | 2.76 | 3.87 | 3.54 | 2.76 | 4.21 | 3.86 | 2.76 | 4.49 | 4.12 | 2.76 | 4.75 | 4.24 |
| ESCRC8.0X280 | 2.76 | 3.38 | 3.07 | 2.76 | 3.65 | 3.33 | 2.76 | 3.87 | 3.54 | 2.76 | 4.21 | 3.86 | 2.76 | 4.49 | 4.12 | 2.76 | 4.75 | 4.24 |
| ESCRC8.0X320 | 2.76 | 3.38 | 3.07 | 2.76 | 3.65 | 3.33 | 2.76 | 3.87 | 3.54 | 2.76 | 4.21 | 3.86 | 2.76 | 4.49 | 4.12 | 2.76 | 4.75 | 4.24 |
| ESCRC8.0X360 | 2.76 | 3.38 | 3.07 | 2.76 | 3.65 | 3.33 | 2.76 | 3.87 | 3.54 | 2.76 | 4.21 | 3.86 | 2.76 | 4.49 | 4.12 | 2.76 | 4.75 | 4.24 |
| ESCRC10.0X120 | 4.19 | 4.61 | 4.17 | 4.19 | 4.89 | 4.45 | 4.19 | 5.14 | 4.69 | 4.19 | 5.53 | 5.05 | 4.19 | 5.86 | 5.36 | 4.19 | 6.45 | 5.76 |
| ESCRC10.0X160 | 4.19 | 4.61 | 4.17 | 4.19 | 4.89 | 4.45 | 4.19 | 5.14 | 4.69 | 4.19 | 5.53 | 5.05 | 4.19 | 5.86 | 5.36 | 4.19 | 6.45 | 5.76 |
| ESCRC10.0X200 | 4.19 | 4.61 | 4.17 | 4.19 | 4.89 | 4.45 | 4.19 | 5.14 | 4.69 | 4.19 | 5.53 | 5.05 | 4.19 | 5.86 | 5.36 | 4.19 | 6.45 | 5.76 |
| ESCRC10.0X240 | 4.19 | 4.61 | 4.17 | 4.19 | 4.89 | 4.45 | 4.19 | 5.14 | 4.69 | 4.19 | 5.53 | 5.05 | 4.19 | 5.86 | 5.36 | 4.19 | 6.45 | 5.76 |
| ESCRC10.0X300 | 4.19 | 4.61 | 4.17 | 4.19 | 4.89 | 4.45 | 4.19 | 5.14 | 4.69 | 4.19 | 5.53 | 5.05 | 4.19 | 5.86 | 5.36 | 4.19 | 6.45 | 5.76 |
| ESCRC10.0X340 | 4.19 | 4.61 | 4.17 | 4.19 | 4.89 | 4.45 | 4.19 | 5.14 | 4.69 | 4.19 | 5.53 | 5.05 | 4.19 | 5.86 | 5.36 | 4.19 | 6.45 | 5.76 |
| ESCRC10.0X400 | 4.19 | 4.61 | 4.17 | 4.19 | 4.89 | 4.45 | 4.19 | 5.14 | 4.69 | 4.19 | 5.53 | 5.05 | 4.19 | 5.86 | 5.36 | 4.19 | 6.45 | 5.76 |

PLAATSING



Bevestiging
 van balklagen
 rond houten
 platen op de
 bovenregel

Minimumafstanden - Schroeven belast bij afschuiving

| Referentie | Minimumafstanden voor schroeven belast bij afschuiving [mm] | | | | | | | | | | | |
|---------------|---|------------------|--------------------|--------------------|--------------------|--------------------|--|-------------------|---------------------|---------------------|---------------------|---------------------|
| | Hoek tussen de hartlijn van de belasting en de vezelrichting = 0° | | | | | | Hoek tussen de hartlijn van de belasting en de vezelrichting = 90° | | | | | |
| | a _{1,0} | a _{2,0} | a _{3,t.0} | a _{3,c.0} | a _{4,t.0} | a _{4,c.0} | a _{1,90} | a _{2,90} | a _{3,t.90} | a _{3,c.90} | a _{4,t.90} | a _{4,c.90} |
| ESCRC6.0X2 | - | - | - | - | - | - | - | - | - | - | - | - |
| ESCRC8.0X80 | - | - | - | - | - | - | - | - | - | - | - | - |
| ESCRC8.0X1 | - | - | - | - | - | - | - | - | - | - | - | - |
| ESCRC8.0X100 | - | - | - | - | - | - | - | - | - | - | - | - |
| ESCRC8.0X1 | - | - | - | - | - | - | - | - | - | - | - | - |
| ESCRC8.0X180 | - | - | - | - | - | - | - | - | - | - | - | - |
| ESCRC8.0X1 | - | - | - | - | - | - | - | - | - | - | - | - |
| ESCRC8.0X200 | - | - | - | - | - | - | - | - | - | - | - | - |
| ESCRC8.0X2 | - | - | - | - | - | - | - | - | - | - | - | - |
| ESCRC8.0X240 | - | - | - | - | - | - | - | - | - | - | - | - |
| ESCRC8.0X2 | - | - | - | - | - | - | - | - | - | - | - | - |
| ESCRC8.0X280 | - | - | - | - | - | - | - | - | - | - | - | - |
| ESCRC8.0X3 | - | - | - | - | - | - | - | - | - | - | - | - |
| ESCRC8.0X320 | - | - | - | - | - | - | - | - | - | - | - | - |
| ESCRC8.0X3 | - | - | - | - | - | - | - | - | - | - | - | - |
| ESCRC8.0X360 | - | - | - | - | - | - | - | - | - | - | - | - |
| ESCRC8.0X4 | - | - | - | - | - | - | - | - | - | - | - | - |
| ESCRC10.0X120 | - | - | - | - | - | - | - | - | - | - | - | - |
| ESCRC10.0X1 | - | - | - | - | - | - | - | - | - | - | - | - |
| ESCRC10.0X160 | - | - | - | - | - | - | - | - | - | - | - | - |
| ESCRC10.0X1 | - | - | - | - | - | - | - | - | - | - | - | - |
| ESCRC10.0X200 | - | - | - | - | - | - | - | - | - | - | - | - |
| ESCRC10.0X2 | - | - | - | - | - | - | - | - | - | - | - | - |
| ESCRC10.0X240 | - | - | - | - | - | - | - | - | - | - | - | - |
| ESCRC10.0X2 | - | - | - | - | - | - | - | - | - | - | - | - |
| ESCRC10.0X300 | - | - | - | - | - | - | - | - | - | - | - | - |
| ESCRC10.0X3 | - | - | - | - | - | - | - | - | - | - | - | - |
| ESCRC10.0X340 | - | - | - | - | - | - | - | - | - | - | - | - |
| ESCRC10.0X3 | - | - | - | - | - | - | - | - | - | - | - | - |
| ESCRC10.0X400 | - | - | - | - | - | - | - | - | - | - | - | - |

a₁ en a₂ kunnen worden vermenigvuldigd met 0,85 voor een verbinding paneel/hout, en met 0,7 voor een verbinding staal/hout.

Spacing and edge distances - Axially loaded screws

| Referentie | Minimum edge distances and spacing for axially loaded screws [mm] | | | |
|---------------|---|-------|-----------|-----------|
| | a_1 | a_2 | $a_{3,c}$ | $a_{4,c}$ |
| ESCRC6.0X200 | - | - | - | - |
| ESCRC8.0X80 | - | - | - | - |
| ESCRC8.0X120 | - | - | - | - |
| ESCRC8.0X100 | - | - | - | - |
| ESCRC8.0X140 | - | - | - | - |
| ESCRC8.0X180 | - | - | - | - |
| ESCRC8.0X160 | - | - | - | - |
| ESCRC8.0X200 | - | - | - | - |
| ESCRC8.0X220 | - | - | - | - |
| ESCRC8.0X240 | - | - | - | - |
| ESCRC8.0X260 | - | - | - | - |
| ESCRC8.0X280 | - | - | - | - |
| ESCRC8.0X300 | - | - | - | - |
| ESCRC8.0X320 | - | - | - | - |
| ESCRC8.0X340 | - | - | - | - |
| ESCRC8.0X360 | - | - | - | - |
| ESCRC8.0X400 | - | - | - | - |
| ESCRC10.0X120 | - | - | - | - |
| ESCRC10.0X140 | - | - | - | - |
| ESCRC10.0X160 | - | - | - | - |
| ESCRC10.0X180 | - | - | - | - |
| ESCRC10.0X200 | - | - | - | - |
| ESCRC10.0X220 | - | - | - | - |
| ESCRC10.0X240 | - | - | - | - |
| ESCRC10.0X280 | - | - | - | - |
| ESCRC10.0X300 | - | - | - | - |
| ESCRC10.0X320 | - | - | - | - |
| ESCRC10.0X340 | - | - | - | - |
| ESCRC10.0X360 | - | - | - | - |
| ESCRC10.0X400 | - | - | - | - |

The pre-drilled hypothesis for capacity and distances calculation is fulfilled.