

SDCFC  
**Fully Threaded Cylinder Head Structural Screw**

The SDCFC cylindrical head structural wood screw with full thread is designed for timber framing, framework and reinforcement. This screw can be used for a wide range of applications in professional wood construction.



## Kenmerken

### Material

- Hardened Carbon Steel
- Black E-Coat™

## Toepassingen

### Advantages

- **Countersunk head:** ideal for timber/timber or steel/timber assembly with head flush with surface
- **Underhead ribs:** for a clear finish and no timber superficial split
- **Full asymmetrical thread** for a maximum withdrawal capacity, allows compressive load bearing
- **SawTooth® point:** fast start, easy driving, no need for pre-drilling
- **Torx driven:** reduces the wear of the bit

### Suitable for

- Solid Timber, Glulam timber, CLT, Wood-based panels

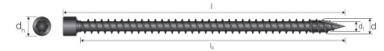
### When to use

- Timber to timber assembly
- Timber reinforcement (to transversile tension or compression)

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## Technische gegevens

### Product Dimensions



| Referentie   | Item code | DB nr.  | NOBB nr. | Fastener dimensions [mm] |      |     |      |     |            | Box Quantity | Weight [kg] |
|--------------|-----------|---------|----------|--------------------------|------|-----|------|-----|------------|--------------|-------------|
|              |           |         |          | d                        | l    | lg  | dh   | d1  | Driver bit |              |             |
| SDCFC8X120   | 78446     | 2523245 | 60774125 | 8                        | 120  | 110 | 10.2 | 5.2 | T-40       | 50           | 0.033       |
| SDCFC8X160   | 78447     | 2523247 | 60774126 | 8                        | 160  | 150 | 10.2 | 5.2 | T-40       | 50           | 0.038       |
| SDCFC8X200   | 78448     | 2523249 | 60774127 | 8                        | 200  | 190 | 10.2 | 5.2 | T-40       | 50           | 0.053       |
| SDCFC8X240   | 78449     | 2523250 | 60774128 | 8                        | 240  | 230 | 10.2 | 5.2 | T-40       | 50           | 0.063       |
| SDCFC8X280   | 78450     | 2523252 | 60774129 | 8                        | 280  | 270 | 10.2 | 5.2 | T-40       | 30           | 0.074       |
| SDCFC8X330   | 78451     | 2523254 | 60774130 | 8                        | 330  | 320 | 10.2 | 5.2 | T-40       | 30           | 0.086       |
| SDCFC10X380  | 78458     | 2523264 | 60774137 | 10                       | 380  | 368 | 13.4 | 6.2 | T-50       | 25           | 0.137       |
| SDCFC10X500  | 78459     | 2523266 | 60774138 | 10                       | 500  | 476 | 13.4 | 6.2 | T-50       | 25           | 0.157       |
| SDCFC10X600  | 78460     | 2523267 | 60774139 | 10                       | 600  | 576 | 13.4 | 6.2 | T-50       | 15           | 0.193       |
| SDCFC10X800  | 78461     | 2523269 | 60774140 | 10                       | 800  | 776 | 13.4 | 6.2 | T-50       | 15           | 0.263       |
| SDCFC10X1000 | 78462     | 2523271 | 60774141 | 10                       | 1000 | 976 | 13.4 | 6.2 | T-50       | 15           | 0.313       |

### Product characteristic properties

| Referentie   | Product characteristic properties                          |  |   |  |  |
|--------------|--|--|---|--|--|
|              | Characteristic Yield Moment – $M_{y,k}$ [ $M_{y,k}$ ] [Nm] | Characteristic withdrawal parameter - $f_{ax,k,90^\circ}$ [ $f_{ax,k,90^\circ}$ ] [ $N/mm^2$ ] | Characteristic head pull-through parameter - $f_{head,k}$ [ $f_{head,k}$ ] [ $N/mm^2$ ] | Characteristic tensile capacity - $f_{tens,k}$ [ $f_{tens,k}$ ] [kN] | Characteristic torsional strength - $f_{tor,k}$ [ $f_{tor,k}$ ] [Nm] |
| SDCFC8X120   | 21.9   | 13.4   | 9.4   | 21.7   | 25   |
| SDCFC8X160   | 21.9   | 13.4   | 9.4   | 21.7   | 25   |
| SDCFC8X200   | 21.9   | 13.4   | 9.4   | 21.7   | 25   |
| SDCFC8X240   | 21.9   | 13.4   | 9.4   | 21.7   | 25   |
| SDCFC8X280   | 21.9   | 13.4   | 9.4   | 21.7   | 25   |
| SDCFC8X330   | 21.9   | 13.4   | 9.4   | 21.7   | 25   |
| SDCFC10X380  | 37.9   | 13   | 9.4   | 32.9   | 46   |
| SDCFC10X500  | 37.9   | 13   | 9.4   | 32.9   | 46   |
| SDCFC10X600  | 37.9   | 13   | 9.4   | 32.9   | 46   |
| SDCFC10X800  | 37.9   | 13   | 9.4   | 32.9   | 46   |
| SDCFC10X1000 | 37.9   | 13   | 9.4   | 32.9   | 46   |

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### Plaatsing

Spacing and Edge distances - Shear loaded screws

| Referentie   | Minimum edge distances and spacing for shear loaded screws [mm] |                  |                    |                    |                    |                    |                                    |                   |                     |                     |                     |                     |
|--------------|---|------------------|--------------------|--------------------|--------------------|--------------------|------------------------------------|-------------------|---------------------|---------------------|---------------------|---------------------|
|              | Angle between load and grain = 0°                               |                  |                    |                    |                    |                    | Angle between load and grain = 90° |                   |                     |                     |                     |                     |
|              | a <sub>1.0</sub>  | a <sub>2.0</sub> | a <sub>3.t.0</sub> | a <sub>3.c.0</sub> | a <sub>4.t.0</sub> | a <sub>4.c.0</sub> | a <sub>1.90</sub>                  | a <sub>2.90</sub> | a <sub>3.t.90</sub> | a <sub>3.c.90</sub> | a <sub>4.t.90</sub> | a <sub>4.c.90</sub> |
| SDCFC8X120   | 96  | 40               | 120                | 80                 | 40                 | 40                 | 40                                 | 40                | 80                  | 80                  | 80                  | 40                  |
| SDCFC8X160   | 96  | 40               | 120                | 80                 | 40                 | 40                 | 40                                 | 40                | 80                  | 80                  | 80                  | 40                  |
| SDCFC8X200   | 96  | 40               | 120                | 80                 | 40                 | 40                 | 40                                 | 40                | 80                  | 80                  | 80                  | 40                  |
| SDCFC8X240   | 96  | 40               | 120                | 80                 | 40                 | 40                 | 40                                 | 40                | 80                  | 80                  | 80                  | 40                  |
| SDCFC8X280   | 96  | 40               | 120                | 80                 | 40                 | 40                 | 40                                 | 40                | 80                  | 80                  | 80                  | 40                  |
| SDCFC8X330   | 96  | 40               | 120                | 80                 | 40                 | 40                 | 40                                 | 40                | 80                  | 80                  | 80                  | 40                  |
| SDCFC10X380  | 120   | 50               | 150                | 100                | 50                 | 50                 | 50                                 | 50                | 100                 | 100                 | 100                 | 50                  |
| SDCFC10X500  | 120   | 50               | 150                | 100                | 50                 | 50                 | 50                                 | 50                | 100                 | 100                 | 100                 | 50                  |
| SDCFC10X600  | 120   | 50               | 150                | 100                | 50                 | 50                 | 50                                 | 50                | 100                 | 100                 | 100                 | 50                  |
| SDCFC10X800  | 120   | 50               | 150                | 100                | 50                 | 50                 | 50                                 | 50                | 100                 | 100                 | 100                 | 50                  |
| SDCFC10X1000 | 120   | 50               | 150                | 100                | 50                 | 50                 | 50                                 | 50                | 100                 | 100                 | 100                 | 50                  |

Spacing and edge distances - Axially loaded screws

| Referentie   | Minimum edge distances and spacing for axially loaded screws [mm] |                |                   |                   |
|--------------|---|----------------|-------------------|-------------------|
|              | a <sub>1</sub>  | a <sub>2</sub> | a <sub>1.cg</sub> | a <sub>2.cg</sub> |
| SDCFC8X120   | 80  | 24             | 64                | 24                |
| SDCFC8X160   | 80  | 24             | 64                | 24                |
| SDCFC8X200   | 80  | 24             | 64                | 24                |
| SDCFC8X240   | 80  | 24             | 64                | 24                |
| SDCFC8X280   | 80  | 24             | 64                | 24                |
| SDCFC8X330   | 80  | 24             | 64                | 24                |
| SDCFC10X380  | 100   | 30             | 80                | 30                |
| SDCFC10X500  | 100   | 30             | 80                | 30                |
| SDCFC10X600  | 100   | 30             | 80                | 30                |
| SDCFC10X800  | 100   | 30             | 80                | 30                |
| SDCFC10X1000 | 100   | 30             | 80                | 30                |

