

To all customers

Heerbrugg, 30.05.2018 / rmrt

**Warranty of technical values for our fasteners  
CDM-4.8xL and CDL-A14-4.8xL**

Dear customer

We therefore confirm that the following values of our CDM-4,8xL and CDL-A14-4,8xL fasteners are derived from the future ETA-10/0198 approval which will be available for you from October 1<sup>st</sup> 2018.

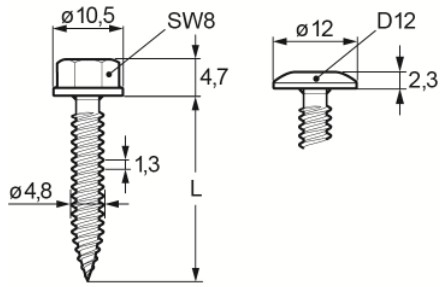
In the meantime, this issued letter is to be considered as a warranty for you.

Thank you for your attention and for the trust you have placed in us. Please do not hesitate to contact us if you have any further questions.

Kind regards



Martin Rüdüsühli  
Head of Product Line Roofing & Cladding



Materials

Fastener: Carbon steel with anticorrosion coating  
 Washer: -  
 Component I: S280GD to S450GD - EN 10346  
 Component II: S280GD to S450GD - EN 10346  
 HX300LAD to HX460LAD - EN 10346

Drilling-capacity  $\Sigma(t_i + t_{ij}) \leq 2.50$  mm

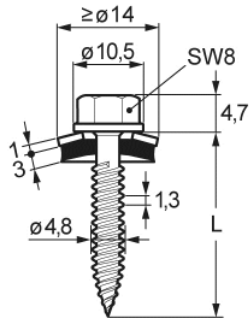
|                   |            | $t_{ij}$ [mm] |      |      |      |      |      |
|-------------------|------------|---------------|------|------|------|------|------|
|                   |            | 0.63          | 0.75 | 0.88 | 1.00 | 1.25 |      |
| $V_{R,k}$ [kN]    | 0.63       | 1.48          | 1.48 | 1.48 | 1.48 | 1.48 |      |
|                   | 0.75       | 1.48          | 2.90 | 2.90 | 2.90 | 2.90 |      |
|                   | 0.88       | 1.48          | 2.90 | 3.78 | 3.78 | 3.78 |      |
|                   | $t_i$ [mm] | 1.00          | 1.48 | 2.90 | 3.78 | 4.59 | 4.59 |
|                   | 1.25       | 1.48          | 2.90 | 3.78 | 4.49 | 4.59 |      |
| $N_{R,k}$ [kN]    | 0.63       | 1.16          | 1.34 | 1.65 | 1.88 | 1.88 |      |
|                   | 0.75       | 1.16          | 1.34 | 1.65 | 1.94 | 2.35 |      |
|                   | 0.88       | 1.16          | 1.34 | 1.65 | 1.94 | 2.35 |      |
|                   | $t_i$ [mm] | 1.00          | 1.16 | 1.34 | 1.65 | 1.94 | 2.35 |
|                   | 1.25       | 1.16          | 1.34 | 1.65 | 1.94 | 2.35 |      |
| $N_{R,II,k}$ [kN] |            | 1.16          | 1.34 | 1.65 | 1.94 | 2.62 |      |

No additional definitions

**Self-drilling screw**

CDM-4,8 x L, CDM-D12-4,8 x L

**Annex 43**



Materials

Fastener: Carbon steel with anticorrosion coating

Washer: Aluminum alloy - EN 573  
with EPDM-seal

Component I: S280GD to S450GD - EN 10346

Component II: S280GD to S450GD - EN 10346  
HX300LAD to HX460LAD - EN 10346

Drilling-capacity  $\Sigma(t_i + t_{ij}) \leq 2.00$  mm

|                   |      | $t_{ij}$ [mm] |      |      |      |      |      |      |
|-------------------|------|---------------|------|------|------|------|------|------|
|                   |      | 0.40          | 0.50 | 0.55 | 0.63 | 0.75 | 0.88 | 1.00 |
| $V_{R,k}$ [kN]    | 0.40 | 0.74          | 0.74 | 0.74 | 0.74 | 0.74 | 0.74 | 0.74 |
|                   | 0.50 | 0.74          | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 |
|                   | 0.55 | 0.74          | 0.94 | 1.06 | 1.06 | 1.06 | 1.06 | 1.06 |
|                   | 0.63 | 0.74          | 0.94 | 1.06 | 1.25 | 1.25 | 1.25 | 1.25 |
|                   | 0.75 | 0.74          | 0.94 | 1.06 | 1.25 | 2.29 | 2.29 | 2.29 |
|                   | 0.88 | 0.74          | 0.94 | 1.06 | 1.25 | 2.29 | 2.98 | 2.98 |
|                   | 1.00 | 0.74          | 0.94 | 1.06 | 1.25 | 2.29 | 2.98 | 3.61 |
| $N_{R,k}$ [kN]    | 0.40 | 0.69          | 0.89 | 1.00 | 1.16 | 1.34 | 1.58 | 1.58 |
|                   | 0.50 | 0.69          | 0.89 | 1.00 | 1.16 | 1.34 | 1.65 | 1.77 |
|                   | 0.55 | 0.69          | 0.89 | 1.00 | 1.16 | 1.34 | 1.65 | 1.94 |
|                   | 0.63 | 0.69          | 0.89 | 1.00 | 1.16 | 1.34 | 1.65 | 1.94 |
|                   | 0.75 | 0.69          | 0.89 | 1.00 | 1.16 | 1.34 | 1.65 | 1.94 |
|                   | 0.88 | 0.69          | 0.89 | 1.00 | 1.16 | 1.34 | 1.65 | 1.94 |
|                   | 1.00 | 0.69          | 0.89 | 1.00 | 1.16 | 1.34 | 1.65 | 1.94 |
| $N_{R,II,k}$ [kN] |      | 0.69          | 0.89 | 1.00 | 1.16 | 1.34 | 1.65 | 1.94 |

No additional definitions

**Self-drilling screw with sealing washer  $\geq \text{Ø} 14$  mm**

CDL-A14-4,8 x L

**Annex 44**