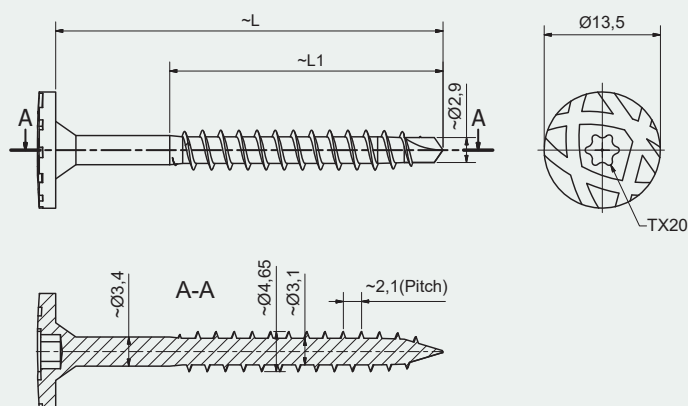
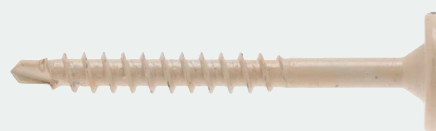


## CEWOOD PANEL SCREW

### Product data

| Technical data        |                                       |
|-----------------------|---------------------------------------|
| Head:                 | Ø13.8 mm flat head with TX20 recess   |
| Diameter:             | Ø4.65 mm                              |
| Shaft:                | 12 mm                                 |
| Drill point:          | #1S                                   |
| Drill capacity:       | 0.5 - 1.5 mm (Steel S280GD)           |
| Material:             | Hardened steel                        |
| Surface treatment:    | ZYTEC™ GX                             |
| Corrosivity category: | C3 (high) according to EN ISO 12944-2 |



### Product range

| Art.no. | Item name                   | Thread [mm] | Length L [mm] | Shaft [mm] | Drill point | Drill cap. [mm] | Head [mm]  | Unit |
|---------|-----------------------------|-------------|---------------|------------|-------------|-----------------|------------|------|
| 17770   | TRABO FH 4.65 X 45 #1S TX20 | Ø4.65       | 45/64         | 12         | #1S         | 0.5 - 1.5       | Ø13.5 TX20 | 250  |

### Advantages

- Suitable for fastening of CEWOOD Panels to steel or wood
- Large head for better load distribution
- Specially designed pattern on the head for better concealing
- Surface treated with ZYTEC™ GX for optimal corrosion protection
- Available in more than 500 colours (Qualicoat certified facade quality powder)

## CEWOOD PANEL SCREW

### Design resistance

The design resistance of the screw is determined in accordance with EN 1993-1-3:2006 + AC:2009 and EN 1995-1-1:2004 + AC:2006 + A1:2008 + A2:2014.

The resistance when loaded in tension,  $N_{Rd}$ , appears from the table on the right and is the minimum value of the pull-out resistance of the supporting object and the tension resistance of the screw. Thus, the pull-through resistance of the fixed object is not taken into account.

The theoretical values must be considered indicatively since the conditions of the construction site may vary. Practical tests of the specific application are recommended for verification of the listed values.

#### Assumptions:

Fixed object: Steel S280GD - EN 10346  
 Supporting object: Steel S280GD - EN 10346  
 Supporting object: Structural wood, C24  
 Density,  $\rho_k = 350 \text{ kg/m}^3$   
 Withdrawal parameter,  $f_{ax,k} = 11 \text{ N/mm}^2$

$L$  = Length of the screw [mm]

$t_f$  = Thickness of the fixed object [mm]

$t_{II}$  = Thickness of the supporting object [mm]

All resistances are stated in kN (1 kN  $\approx$  100 kg)

Safety factor:  $\gamma_M = 1.35$ ,  $k_{mod} = 0.90$

| Design resistance when loaded in tension,<br>$N_{Rd}$ [kN] - Steel support |      |  |
|----------------------------------------------------------------------------|------|--|
| $t_{II}$ \ $L$                                                             | 45   |  |
| 0.50                                                                       | 0.28 |  |
| 0.63                                                                       | 0.35 |  |
| 0.75                                                                       | 0.42 |  |
| 0.88                                                                       | 0.49 |  |
| 1.00                                                                       | 0.56 |  |
| 1.25                                                                       | 0.70 |  |
| 1.50                                                                       | 0.84 |  |

| Design resistance when loaded in tension,<br>$N_{Rd}$ [kN] - Wooden support |      |  |
|-----------------------------------------------------------------------------|------|--|
| $t_f$ \ $L$                                                                 | 45   |  |
| 5                                                                           | 1.00 |  |
| 10                                                                          | 1.00 |  |
| 15                                                                          | 0.91 |  |
| 20                                                                          | 0.74 |  |
| 25                                                                          | 0.57 |  |

